SERVICE MANUAL

Color Television Receiver

Model: KDT133UY

IMPORTANT SERVICE SAFETY INFORMATION

Operating the receiver outside of its cabinet or with its back removed involves a shock hazard. Work on these models should only be performed by those who are thoroughly familiar with precautions necessary when working on high voltage equipment.

Exercise care when servicing this chassis with power applied. Many B plus and high voltage RF terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis, escutcheon, picture tube dag and tuner when operating chassis.

These receivers have a "polarized" AC line cord. The AC plug is designed to fit into standard AC outlets in one direction only. The wide blade connects to the "ground side" and the narrow blade connects to the hot "side" of the AC line. This assures that the TV receiver is properly grounded to the house wiring. If an extension cord must be used, make sure it is of the "polarized" type.

Since the chassis of this receive is connected to one side of the AC supply during operation, service should not be attempted by anyone not familiar with the precautions necessary when working on these types of equipment.

When it is necessary to make measurements or tests with AC power applied to the receiver chassis, an Isolation Transformer must be used as a safety precaution and to prevent possible damage to transistors. The Isolation Transformer should be connected between the TV line cord plug and the AC power outlet.

Certain High voltage (HV) maybe cause X-ray radiation. Receivers should not be operated with HV levels exceeding the specified rating for their chassis type. Higher voltage may also increase the possibility of failure in the HV supply.

It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the receive that could cause a rise in high voltage, or operating supply voltages. No changes should be made the original design of the receiver.

Components shown in the shaded areas on the schematic diagram and/or identified by in the replacement parts list should be replaced only with exact factory recommended replacement parts. The use of unauthorized substitute parts man creats may create shock, fire, X-ray radiation, or other hazards.

To determine the presence of high voltage, use an accurate high impedance HV meter connected between the second anode lead and he CRT dag grounding device. When servicing the High Voltage System remove static charges from it by connecting a 10K Ohm resistor in series Wan insulated wire(such as test probe) between the picture tube dag and 2nd anode lead(Have AC line cord disconnected from AC supply).

The picture tube use in this receiver employ integral implosion protection. Replace with a tube of the same type number for continued safety. Do not lift picture tube by the neck. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely, Keep others without shatter proof goggles away.

Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Replace all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers of shiedls, isolation resistor-capacitor networks, mechanical insulators etc.

3. To be sure that not shock hazard exists, a check for the presence of leakage current should be made at each exposed metal part having a return path to the chassis (antenna, cabinet metal, screw heads knobs and/or shafts, escutcheon, etc.) in the following manner.

Plug the AC line cord directly into a 120V, AC receptacle. (Do not use an Isolation Transformer during these checks.) All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a nonpolarized adapter plug must be used only for the purpose of completing these checks.)

If available, measure current using an accurate leakage current tester. Any reading of 0.35mA or more is excessive and indicates a potential shock hazard which must be corrected before returning the receiver to owner.

If a reliable leakage current tester is not available, this allernate method of measurement should be used. Using two clip leads, connect a 1500 Ohm, 10 watt resistor paralleled by a 0.15MF capacitor in series with a known earth ground, such as a water pipe or conduit and the metal part to be checked. Use a VTVM or VOM with 1000 Ohms per Volt, or higher, sensitivity to measure this AC voltage drop across the resistor,. Any reading of 0.35 volt RMS of more is excessive and indicates potential shock hazard which must be corrected before returning he receiver to the owner.

ALIGNMENT PROCEDURES

PLEASE READ BEFORE ATTEMPTING SERVICE

1. Use an Isolation Transformer when performing any service on this chassis.
2. Never disconnect any leads while receiver is in operation.
3. Disconnect all power before attempting an repairs.
4. Do not short any porsition of the circuit while the power is on.
5. For safety reasons, replacing any components should be according with identical replacement parts (SEE PARTS LIST).
6. Before testing, warm up the TV for at least 30 minutes and demagnetize the CRT with an external degaussing coil.
7. When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
8. Inferior silicon grease can damage IC's and transistors. When replacing IC's and transistors, use only specified silicon grease,. Remove all old silicon when applying new silicon.
9. Before removing the anode cap, discharge eiecticity because it contains high voltage.

TEST EQUIPMENT

1. Standard Signal Generator (LEADER3216 PT)
2. Oscilloscope
3. Digital Voltmeter
4. High Voltage Meter
5. Demagnetizing Coil

Tip: some adjustments must be performed in the SERVICE menu. You can enter the SERVICE menu in the following way:

1. Press the MENU button on the remote control then press the INFO button on the remote control at least 5 times immediately.
2. Press the CH+/- buttons to select the desired mode or press 0-9 number buttons to enter the SERVICE "X" menu directly and then press the CH+/- buttons to select the desired mode.
3. Press the VOL+/- buttons to change the settings.

IF ADJUSTMENT

1.Enter the SERVICE menu and press the number button "4" on the remote control to bring up SERVICE 4.
2.Set the IFFS to "1".

B+ ADJUSTMENT

TEST EQUIPMENT: DIGITAL METER

1.Operate the TV set with AC 120V or DC 12V.
2.Connect the digital voltmeter + lead to C960 and GND. Adjust the RP950 until the meter reading DC110±0.5V.

GEOMETRY ADJUSMENT

1.Receive a geometry pattern.
2.Enter the SERVICE menu (SERVICE 1 for horizontal and SERVICE 2 for vertical).
3.Select a value between 0 and 63, and the changed value is stored immediately.

Horizontal:

6PAR: Horizontal Parallelogram

Set the horizontal parallelogram to change to rectangle or trapezium.

6BOW: Horizontal Bow

Set the vertical lines straight.

6HSH: Horizontal Delay (horizontal shift)

Set the horizontal centre of the picture at the centre of the tube.

6EWW: Horizontal Width

Set the correct picture width.

6EWP: East-west parabola correction

Set the vertical lines at the sides of the screen straight.

6UCR: East-west corner-correction

Set the vertical lines in the upper corners straight.

6LCR: East-west corner-correction

Set the vertical lines in the lower corners straight.

6EWT: Trapezium correction

Set the vertical lines as vertical as possible.

Vertical:

6VSL: Vertical S-correction

Set the vertical lines as vertical as possible.

6VAM: Vertical Amplitude (picture height)

Set the correct picture height.

6SCL: Vertical Linearity

Set the height of the squares in the top and bottom of the picture so that they are of equal height.

6VSH: Vertical Shift

Set the vertical centre of the picture at the centre of the tube.

WHITE BALANCE ADJUSTMENT

1.Enter the TV menu and set the color mode to “NORMAL”.

2.Receive a black-white pattern with color sync signal.

3.Adjust the CONTRAST and BRIGHTNESS in such a way that the brightness value of the black area is 5 nit and the white is 80 nit.

4.Enter the SERVICE 3 menu and adjust RED, GRN, WPR, WPG and WPB in such a way that X and Y have the following values:
X=0.248, Y=0.299

FOCUS ADJUSTMENT

1.Set CONTRAST control to maximum position and BRIGHTNESS control to middle position.

2.Adjust FOCUS control (on the FBT) to obtain the sharpest and clearest picture on the CRT.

RF AGC

1.Receive the signal of channel 13 (VHF HIGH).

2.Set the input field strength to 60 dBμV.

3.Adjust RF AGC (TOP, in SERVICE 4) control to the point where noise is the least.

OSD ADJUSTMENT

1.Receive the TV Signal with caption text.

2.Enter the SERVICE 2 menu..
3.Select a correct value for the items below.
6VOF: Vertical OSD position alignment
HOF: Horizontal OSD position alignment
VX: Vertical Zoom (select 25)

KDT133UY 彩色电视接收机

KDT133UY colour television receiver

调试说明

test manual

KDT133UY-TS

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1 前言

1.1 适用范围 KDT133UY 机型

1.2 调试注意事项：

请按下列调试步骤和指定的测试仪器进行调试，否则将影响整机性能，为了保证满意的测结果，调试前电视机要预热 30 分钟以上，调试过程各参数要反复调整直到整机各参数最优为止，在调试中必须保证所指定的电压值。以下调试均采用 NTSC M 制信号。

1 Preface

1.1 Available for KDT133UY models

1.2 Test Notices:

Please follow the pointed test steps and choose the right test equipment to conduct justment, otherwise good effect of TV set could not be obtained. Before testing, warm the TV above 30 minutes to obtain satisfied test result. Every parameter should be justed repeatedly to obtain the best value for the unit, the pointed voltage value should guaranteed during testing. The following tests apply NTSC M signal.

2 调试环境

1) 温度：15-35 摄氏度
2) 相对湿度 45-75%
3) 气压 86-106Kpa

2. Adjustment environment

1) Temperature:15℃ -35℃
2) Relative humidity:45-75%
3) Air pressure: 86-106KPa

3 测试仪器设备（以下仪器必须经过校准）

1)示波器
2)万用表（内阻：DC≥20kΩ/V　AC≥5kΩ/V）
3)高压表 35kV
4)电流表（0.5 级，直流 3mA 档）
5)消磁器
6)PT5820 信号发生器

3 Test Equipment (The following equipment should be calibrated correctly.)

1)Oscilloscope
2)Multi-meter (Internal resistance: DC≥20kΩ/V　AC≥5kΩ/V)
3)High voltage meter 35kV
4)Ammeter (0.5 grade, at DC 3mA position)
5)Degaussing coil
6)PT5820 signal generator

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4 调试项目及调试方法
4.1 交流电源电压检查及+B DC 的调整
4.1.1 检查交流电压是否正常（AC120V，60Hz，正弦波正常;DC12V）。
4.1.2 接收电视广播信号，调图像状态到标准。
4.1.3 调节 RP950，使 C959 两端电压为+B，+B 电压请参照 BOM。

4 Adjustment items and adjustment operation
4.1 AC power supply check and +B DC adjustment
4.1.1 Check AC power supply is normal or not (AC120V, 60Hz and Sine Wave are normal;DC12V)
4.1.2 Receive Television broadcast signal, set PICTURE to standard mode
4.1.3 Adjust RP950 so that voltages at two ends of C959 are +B, the voltage of +B please see BOM

4.2 高压校对及灯丝电压检测
4.2.1 在校对高压前应确认交流电源电压及+B 在规定范围内。
4.2.2 接高压计（表）于 CRT 阳极上（G4）。
4.2.3 开启接收机，把亮度、对比度调节至最小（零束电流）。
4.2.4 测量高压应在 25kV 以下。
4.2.5 用有效值表测量灯丝电压应在 6.3±0.2Vrms 范围之内。

4.2 High voltage check and filament voltage check
4.2.1 Make sure AC power supply and +B are within pointed range before calibrating high voltage.
4.2.2 Connect high voltage meter to anode (G4) of CRT.
4.2.3 Turn on the receiver, set the BRIGHTNESS and CONTRAST to the minimum (zero beam current).
4.2.4 High voltage must be measured below 25kV
4.2.5 Filament voltage must be measured within the range of 6.3±0.2Vrms by virtual value meter

4.3 图像中频设置
进入工厂菜单，调出 SERVICE 4，将 IFFS 设置为 1，即图像中频为 45.75MHz。

4.3 Picture RF setting
Enter factory menu and call up SERVICE 4, set IFFS as 1 (Picture RF is 45.75MHz)

4.4 Option 设置进入工厂菜单，调出 SERVICE 8
将 OP1-OP5 各 bit 设置为如下状态：

OP1	11100100	228
OP2	01010111	87
OP3	01101100	108
OP4	101011XX	
	(Philips Tuner：XX=00；ALPS Tuner：XX=10；QingJa Tuner：XX=10)	
OP5	00100101	37

OP1-OP5 的 bit 定义参见附录 A1

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4.4 Option setting

Enter factory menu to call up SERVICE 8

Set OP1-OP5 bit as the following:

OP1	11100100	228
OP2	01010111	87
OP3	01101100	108
OP4	101011XX	
	(Philips Tuner：XX=00；ALPS Tuner：XX=10；QingJa Tuner：XX=10)	
OP5	00100101	37

Definition of OP1-OP5 bit please see appendix A1

4.5 帘栅电压调整

4.5.1 首先进入工厂菜单，调出 SERVICE 4，将 VG2B 设置为 50（根据显像管型号不同，其值参照 BOM）。

4.5.2 接收某个 NTSC 制信号，然后去调制信号。进入工厂菜单，再按“0”键进入 G2 调整模式，调整高压包 SCREEN 电位器，使屏幕出现 VG2：INSIDE HIGH。

4.5 Grid voltage adjustment

4.5.1 Enter factory menu firstly to call up SERVICE 4, set VG2B as 50 (its value please see BOM according to different CRT type)

4.5.2 Receive one NTSC signal and modulate the signal. Enter factory menu, then press “0” key to enter G2, adjust flyback transformer SCREEN potentiometer to display VG2: INSIDE HIGH.

4.6 RFAGC 调整

4.6.1 接收 VH 段信号（七频道或十频道），输入 60dBμV 灰度阶梯信号。

4.6.2 进入 SERVICE 4，选中 TOP，调节使得图像噪声点刚好消失。

4.6 RFAGC adjustment

4.6.1 Receive VH signal (Channel 7 or channel 10), apply 60dBμV gray scale signal

4.6.2 Enter SERVICE 4 to select TOP, then adjust it so that picture noise is just disappeared

4.7 FOCUS 的调整

4.7.1 接收五圆图，将图像调到标准状态。

4.7.2 调节聚焦电位器（行输出变压器上），使图像中央四角聚焦最佳为止。

4.7 FOCUS adjustment

4.7.1 Receive five circles pattern, adjust the pattern to standard mode

4.7.2 Adjust focus potentiometer (horizontal output transformer) so that the center and four corners of pattern are the best focus.

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4.8 行、场扫描及几何校正的调整和字符调整

4.8.1 接收五圆图信号，进入工厂菜单，调出 SERVICE 2。

6VSL	XX	使图像中线、黑边刚刚重合。
6VAM	XX	调整使图像重显率为 92%±2。
6SCL	XX	使图像上、下两边与中间方格同样宽。
6VSH	XX	使图像中线与显像管几何中心刚刚重合。
6VOF	XX	调节使字符上边空一格为准。
HOF	XX	调节使字符左边空一格为准。
VX	25	

4.8 Horizontal scanning, vertical scanning and geometry distortion adjustment and character adjustment

4.8.1 Receive five circles pattern signal, enter factory menu to call up SERVICE 2.

6VSL	XX	Adjust it so that horizontal midline of the pattern superpose with the black edge of the pattern.
6VAM	XX	Adjust it so that the picture reproduction display ratio is 92%±2
6SCL	XX	Adjust it so that upper pane and bottom pane of the pattern are the same as the middle pane.
6VSH	XX	Adjust it so that the pattern midline superposes over CRT geometric center.
6VOF	XX	Adjust it so that upper of the character is empty character.
HOF	XX	Adjust it so that left of the character is empty character.
VX	25	

4.8.2 接收方格信号，进入工厂菜单，调出 SERVICE 1。

6PAR	XX	不用调。
6BOW	XX	不用调。
6HSH	XX	使图像左右对称。
6EWW	XX	不用调。
6EWP	XX	不用调。
6UCR	XX	不用调。
6LCR	XX	不用调。
6EWT	XX	不用调。

4.8.2 Receive crosshatch signal and enter the factory menu to call up SERVICE 1.

6PAR	XX	No adjustment.
6BOW	XX	No adjustment.
6HSH	XX	Adjust it so that the left half is symmetrical with the right half.
6EWW	XX	No adjustment.
6EWP	XX	No adjustment.
6UCR	XX	No adjustment.
6LCR	XX	No adjustment.
6EWT	XX	No adjustment.

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4.9 进入工厂菜单，调出 SERVICE　4，设置以下参数：

TOP	XX	
VOL	XX	
IFFS	1	
HDOL	4	（这是 RGB 输出幅度，根据显像管不同，其值参见 BOM）
AGC	1	
VG2B	XX	
PWTM	XX	设置开机时间。
MCOL	XX	设置最大色饱和度。
V100	XX	设置音量处在 100 时的 TDA9859 的音量输出。

4.9 Enter factory menu to call up SERVICE　4, set the following parameters:

TOP	XX	
VOL	XX	
IFFS	1	
HDOL	4	(This is RGB OUT range, and the value is difference from different CRT, it's value please see BOM)
AGC	1	
VG2B	XX	
PWTM	XX	Set ON time
MCOL	XX	Set the maximum color saturation
V100	XX	Set volume output of TDA9859 when volume is 100.

4.10 SOFT 调整，进入工厂菜单，调出 SERVICE　5。

V60	XX	设置音量处在 60 时的 TDA9859 的音量输出。
V30	XX	设置音量处在 30 时的 TDA9859 的音量输出。
WPRC	XX	
WPGC	XX	
WPBC	XX	
1 CON	50	
1 BRI	35	
1 COL	25	
1 SHP	50	

注意：8<=V30<=V60<=V100<=63

4.10 SOFT adjustment, enter factory menu to call up SERVICE　5。

V60	XX	Set volume output of TDA9859 when volume is 60.
V30	XX	Set volume output of TDA9859 when volume is 30.
WPRC	XX	
WPGC	XX	
WPBC	XX	
1 CON	50	
1 BRI	35	
1 COL	25	
1 SHP	50	

Attention: 8<=V30<=V60<=V100<=63

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4.11 NORMAL 和 BRIGHT 调整，进入工厂菜单，调出 SERVICE 6。

2 CON	75
2 BRI	40
2 COL	30
2 SHP	60
3 CON	90
3 BRI	50
3 COL	35
3 SHP	60
TR50	6

4.11 NORMAL and BRIGHT adjustment, enter the factory menu to call up SERVICE 6.

2 CON	75
2 BRI	40
2 COL	30
2 SHP	60
3 CON	90
3 BRI	50
3 COL	35
3 SHP	60
TR50	6

4.12 用信号发生器产生彩条+灰度等级信号，再通过视频方式输入电视机，然后进入工厂菜单 SERVICE 3，调整 YDAV 的参数使：

4.12.1 彩条信号的中心竖线最窄最清晰。

4.12.2 各彩条信号分界线与各个灰度等级分界线尽量对齐。

4.12 Apply color bar signal and gray scale signal generated by signal generator to TV under VIDEO mode, then enter factory menu to call up SERVICE 3, adjust YDAV value So that:

4.12.1 Vertical midline of color bar signal is at the narrowest and the clearest position.

4.12.2 Every color bar boundary is aligned with every gray scale boundary.

4.13 最大亮度和低音调整，进入工厂菜单，调出 SERVICE 7。

MBRI	80
BA60	16

4.13 The maximum brightness and BASS adjustment, enter factory menu to call up SERVICE 7.

MBRI	80
BA60	16

4.14 白平衡调整

4.14.1 首先进入菜单，将色彩模式设置为 NORMAL。

4.14.2 接收带色同步信号的左黑右白信号，调节亮度、对比度，使暗场区域亮度值在 5 尼特，亮场区域亮度值在 80 尼特。

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4.14.3 进入工厂调试菜单，调出 SERVICE　3

调节	RED	XX
	GRN	XX
	WPR	XX
	WPG	XX
	WPB	XX

使黑、白的色温座标满足要求（X=0.284，Y=0.299）,或插入自动调试插头采用自动调整白平衡即可。

4.14.4 进入菜单，将色彩模式设置为 COLD，进入工厂调试菜单，调出 SERVICE　5

调节	WPRC	XX
	WPGC	XX
	WPBC	XX

4.14.5 进入菜单，将色彩模式设置为 WORM，进入工厂调试菜单，调出 SERVICE　7

调节	WPRW	XX
	WPGW	XX
	WPBW	XX

注：调试过程中，不能操作工厂菜单 SERVICE　9 里的内容，否则 MCU 将复位。

4.14 White balance adjust

4.14.1 Enter menu firstly and set COLOR mode as NORMAL.

4.14.2 Receive left black right white signal which with color sync signal, adjust brightness, contrast to make brightness in dark area is 5 Nit, in bright area is 80 Nit.

4.14.3 Enter factory service menu, call up SERVICE　3

Adjust	RED	XX
	GRN	XX
	WPR	XX
	WPG	XX
	WPB	XX

Adjust black and white at chromaticity coordinate to satisfy the requirement (X=0.284, Y=0.299), or plug auto test jack to adjust white balance automatically.

4.14.4 Enter into menu and set COLOR to COLD, then enter into factory menu to call up SERVICE　5

Adjust	WPRC	XX
	WPGC	XX
	WPBC	XX

4.14.5 Enter into menu and set COLOR to WARM, then enter into factory menu to call up SERVICE　7.

Adjust	WPRW	XX
	WPGW	XX
	WPBW	XX

Note: You can not operate the items in factory service menu SERVICE　9 during testing, otherwise MCU will reset.

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格式 4a（续页）　　制图：陈海云　　幅面：A4

附录 A：进入工厂菜单方法

按 MENU（菜单）键，显示菜单，立即连续按 INFO 键五次，便进入工厂调试菜单。进入工

厂菜单后按数字键可分别调出 SERVICE 1-9。

用 CH+/-键选择项目（选中后变为红色），用 VOL+/-键设置该项目的参数（见“A1”）。

按 CLEAR 键可退出工厂菜单。

A1：

	Bit	名称	内容	默认状态
OP1	0	OP_ADDRESS_WRITE	**非工厂模式时** service **地址访问**: 1→**允许**, 0→**禁止**	0
	1	OP_CLOCK_NR	XDS **时钟校正**: 1→Yes, 0→No	0
	2	OP_EVG	Vertical guard **功能**: 1→**有**, 0→**无**	1
	3	Reserved		0
	4	OP_RGB	RGB **端子**: 1→**有**, 0→**无**	0
	5	OP_HALFTONE	**菜单半透明**: 1→**有**, 0→**无**	1
	6	OP_CCD	Close Caption **解码**: 1→**有**, 0→**无**	1
	7	OP_VCHIP	Vchip: 1→**有**, 0→**无**	1
OP2	0	OP_ENGLISH	**英文预置**: 1→**有**, 0→**无**	1
	1	OP_FRENCH	**法文预置**: 1→**有**, 0→**无**	1
	2	OP_SPANISH	**西班牙文预置**: 1→**有**, 0→**无**	1
	3	OP_PUTUGUESE	**葡萄牙文预置**: 1→**有**, 0→**无**	0
	4	OP_SURROUND	Surround **功能**: 1→**有**, 0→**无**	1
	5	OP_CLOCK	**时钟功能**: 1→**有**, 0→**无**	0
	6	OP_NV_WAIT	**写好** EEPROM 10ms **等待**: 1→**有**, 0→**无**	1
	7	OP_AVL	AVL **功能**: 1→**有**, 0→**无**	0
OP3	0	OP_WOOFER_ONOFF	**超重低音功能**: 1→**有**, 0→**无**	0
	1	OP_WOOFER_VOL	**超重低音音量控制**: 1→**有**, 0→**无**	0
	2	OP_BLUE_NOT_BLACK_BACK	**无信号背景色**:0→**黑色**, 1→**蓝色**	1
	3	OP_YPRPB	YpbPr selected: 1→Yes, 0→No	1
	4	OP_VG2_MODE	VG2 alignment mode: 1→UOC H, 0→UOC I	0
	5	OP_SYNC_Y	Sync coupled to Y: 1→Yes, 0→No	1
	6	OP_16_9	16:9 **模式**: 1→**有**, 0→**无**	1
	7	OP_TDA9370	**主芯片为** TDA9370: 1→**是**, 0→**否**	0
OP4	0	OP_TUNER_ALPS	ALPS **调谐器**: 1→**有**, 0→**无**	0
	1	OP_TUNER_QINGJIA	QingJia **调谐器**: 1→**有**, 0→**无**	1
	2	OP_DEMAGNETIZE	**自动消磁**: 1→Yes, 0→No	0
	3	OP_DVD_YUV	DVD osd: 1→DVD, 0→YUV	0
	4	OP_SVHS	SVHS **端子**: 1→**有**, 0→**无**	0
	5	OP_DVD	DVD **端子**: 1→**有**, 0→**无**	0
	6	OP_AV2	AV2 **端子**: 1→**有**, 0→**无**	1
	7	OP_AV3	AV3 **端子**: 1→**有**, 0→**无**	1
OP5	0	OP_POWER_STANDBY	1→**开机进入** Stanby mode, 0→Stanby mode **记忆开机**	1
	1	Reserved		0
	2	OP_DVD_COMBO	DVD combo **机芯**: 1→DVD/TV 2 **合** 1, 0→TV	0
	3	OP_FMWS	FM-PLL window selection: 1→Large, 0→Small	0
	4	OP_FSL	Vertical sync slicing level: 1→60%, 0→Noise detector	0
	5	OP_OSO	Switch off in vertical overscan: 1→Overscan, 0→Undefined	0
	6	OP_COMB_FILTER	**梳状滤波器** TC90A53N: 1→**有**, 0→**无**	0
	7	OP_IDENT_SENSITIVE	Ident **灵敏度**: 1→**有**, 0→**无**	0

媒体编号

日底图总号

底图总号

							拟 制		KDT133UY - TS
日期	签名						审 核		
		标记	数量	分区	更改标记	签名	日期		第 8 张

格式 4a（续页） 制图：陈海云 幅面：A4

Appendix A: Enter factory menu

Press MENU button to display the menu, then press INFO button five times to enter factory service menu. Press digital buttons to call up SERVICE 1-9 after entering factory menu. Use CH+/- button to select the item (the item being selected will turn into red),then use VOL+/- button to set the value (See"A1") .

Press CLEAR button to exit the factory menu.

A1：

	Bit	Name	Description	Default Status
OP1	0	OP_ADDRESS_WRITE	Service address visit under non factory mode: 1→Allow, 0→Prohibit	0
	1	OP_CLOCK_NR	XDS Clock correction: 1→Yes, 0→No	0
	2	OP_EVG	Vertical guard: 1→Yes, 0→No	1
	3	Reserved		0
	4	OP_RGB	RGB terminal: 1→Yes, 0→No	0
	5	OP_HALFTONE	Half transparent menu: 1→Yes, 0→No	1
	6	OP_CCD	Close Caption decode: 1→Yes, 0→No	1
	7	OP_VCHIP	Vchip: 1→Yes, 0→No	1
OP2	0	OP_ENGLISH	English Preset: 1→Yes, 0→No	1
	1	OP_FRENCH	French Preset: 1→Yes, 0→No	1
	2	OP_SPANISH	Spanish Preset: 1→Yes, 0→No	1
	3	OP_PUTUGUESE	Portugal Preset: 1→Yes, 0→No	0
	4	OP_SURROUND	Surround : 1→Yes, 0→No	1
	5	OP_CLOCK	Clock: 1→Yes, 0→No	0
	6	OP_NV_WAIT	Write EEPROM10ms wait: 1→Yes, 0→No	1
	7	OP_AVL	AVL: 1→Yes, 0→No	0
OP3	0	OP_WOOFER_ONOFF	Woofer: 1→Yes, 0→No	0
	1	OP_WOOFER_VOL	Woofer volume control: 1→Yes, 0→No	0
	2	OP_BLUE_NOT_BLACK_BACK	Non-signal back:0→black, 1→blue	1
	3	OP_YPRPB	YpbPr selected: 1→Yes, 0→No	1
	4	OP_VG2_MODE	VG2 alignment mode: 1→UOC H, 0→UOC I	0
	5	OP_SYNC_Y	Sync coupled to Y: 1→Yes, 0→No	1
	6	OP_16_9	16:9 mode: 1→Yes, 0→No	1
	7	OP_TDA9370	Main chip is TDA9370: 1→Yes, 0→No	0
OP4	0	OP_TUNER_ALPS	ALPS Tuner: 1→Yes, 0→No	0
	1	OP_TUNER_QINGJIA	QingJia Tuner: 1→Yes, 0→No	1
	2	OP_DEMAGNETIZE	Auto demagnetize: Tuner: 1→Yes, 0→No	0
	3	OP_DVD_YUV	DVD osd: 1→DVD, 0→YUV	0
	4	OP_SVHS	SVHS terminal : 1→Yes, 0→No	0
	5	OP_DVD	DVD terminal : 1→Yes, 0→No	0
	6	OP_AV2	AV2 terminal : 1→Yes, 0→No	1
	7	OP_AV3	AV3 terminal : 1→Yes, 0→No	1
OP5	0	OP_POWER_STANDBY	1→Turn TV on to enter Standby mode, 0→Stanby mode to turn on TV at preset time.	1
	1	Reserved		0
	2	OP_DVD_COMBO	DVD combo chassis: 1→DVD/TV 2 in 1, 0→TV	0
	3	OP_FMWS	FM-PLL window selection: 1→Large, 0→Small	0
	4	OP_FSL	Vertical sync slicing level: 1→60%, 0→Noise detector	0
	5	OP_OSO	Switch off in vertical overscan: 1→Overscan, 0→Undefined	0
	6	OP_COMB_FILTER	Comb Filter TC90A53N: 1→Yes, 0→No	0
	7	OP_IDENT_SENSITIVE	Ident Sensitive: 1→On, 0→Off	0

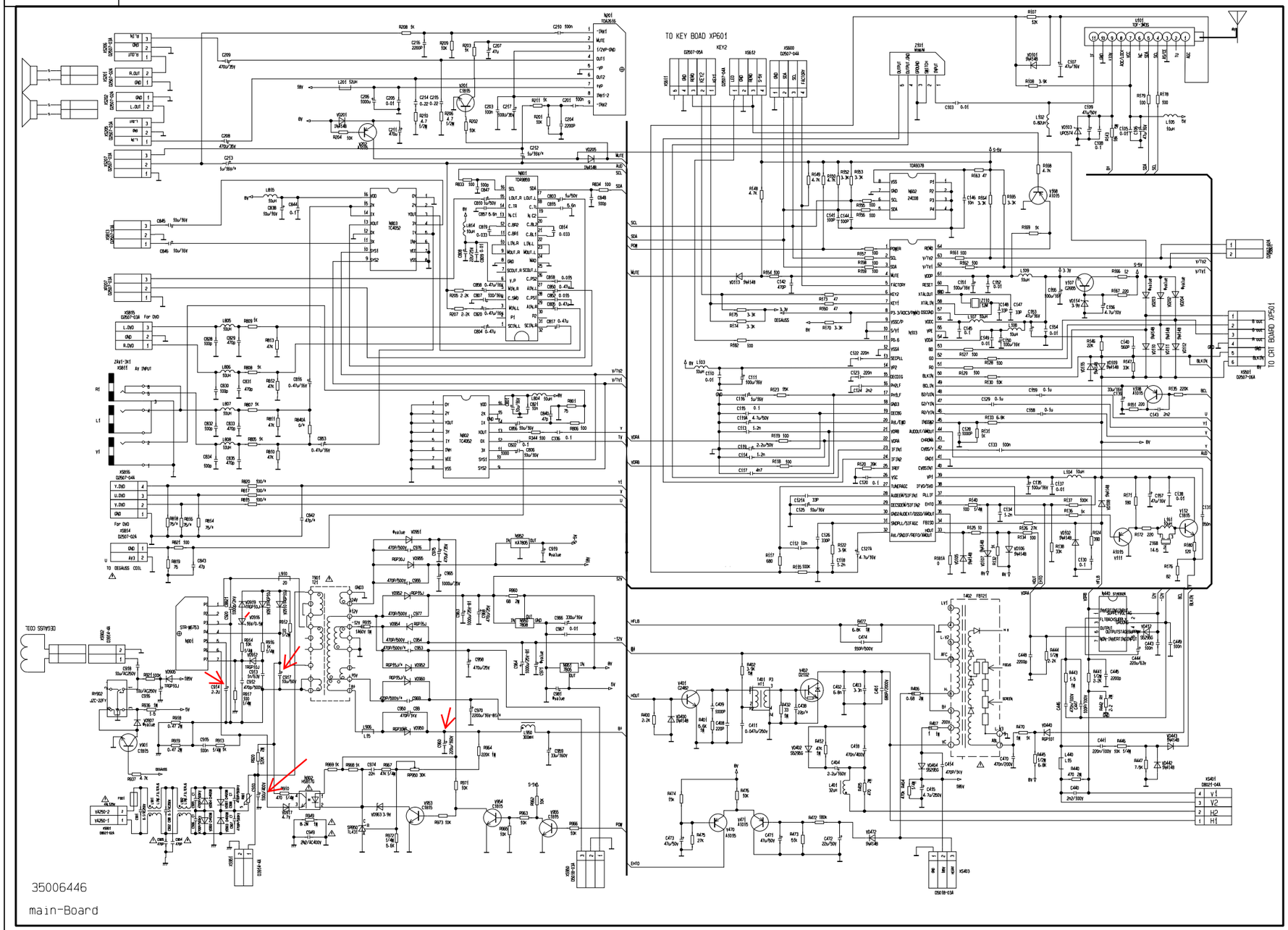
媒体编号

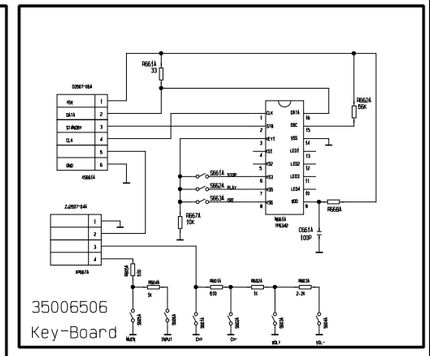
日底图总号

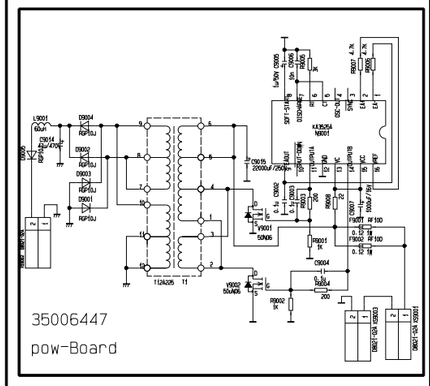
底图总号

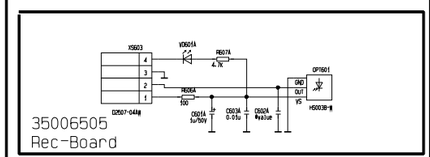
							拟 制		KDT133UY - TS
日期	签名						审 核		
		标记	数量	分区	更改标记	签名	日期		第 9 张

格式 4a（续页） 制图：陈海云 幅面：A4









NOTE:

(1) ALL CAPACITORS ARE IN μF UNLESS OTHERWISE NOTED.
ALL CAPACITORS ARE 50V UNLESS OTHERWISE NOTED.
(2) CAPACITORS NOT SPECIFICALLY DESIGNATED ARE CERAMIC CAPACITORS.
(3) ALL RESISTORS ARE IN OHM 1/6 WAT UNLESS OTHERWISE NOTED.
(4) RISISTORS NOT SPECIFICALLY DESIGNATED ARE CARSON FILM RESISTORS.
(5) THIS CIRCIUT DIAGRAM IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
(6) ⚠ DESIGNATES A SAFETY CRITICAL COMPONENT.

媒体编号	
旧底图总号	
底图总号	
日期	签名

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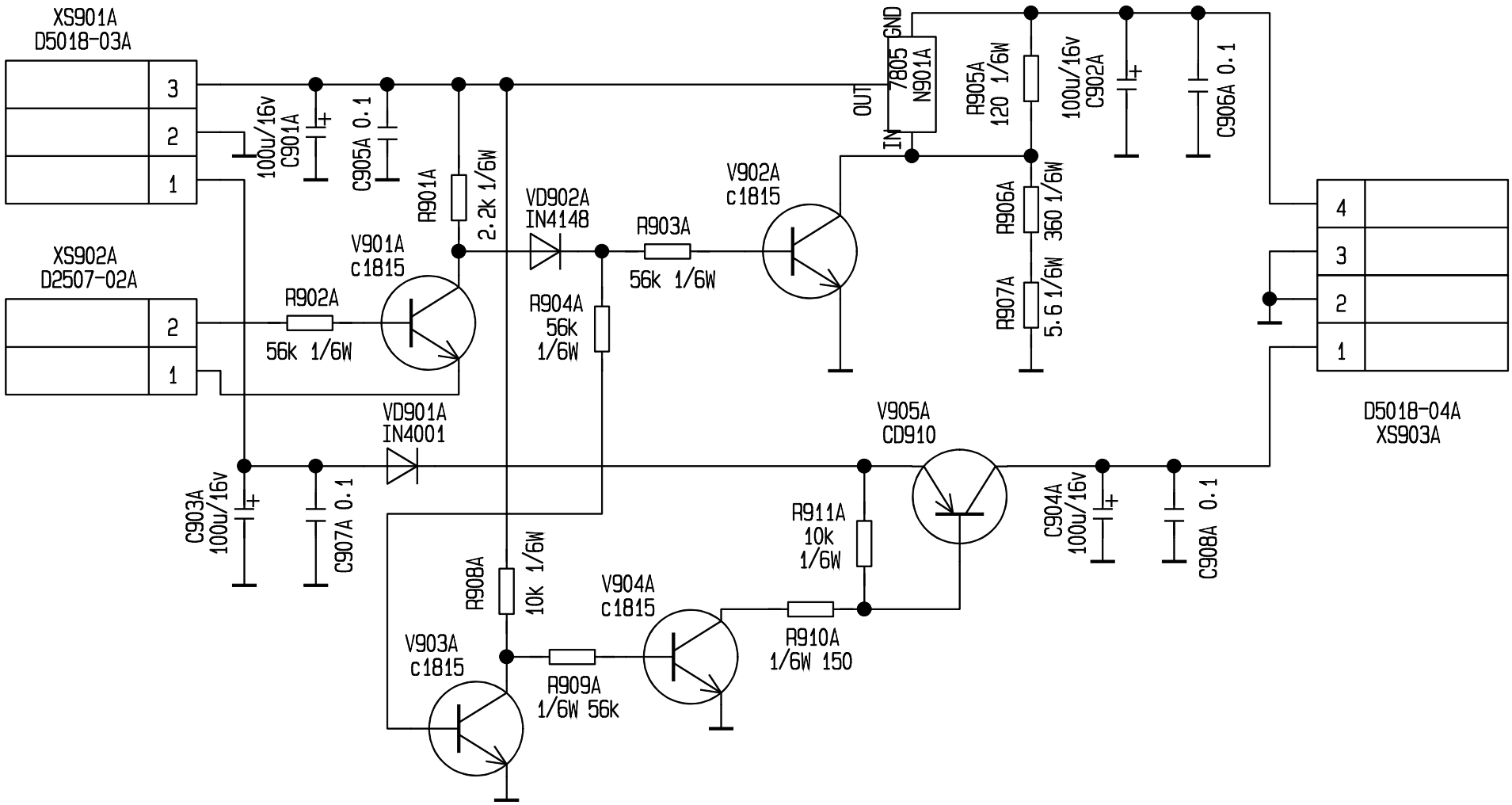
审核													
工艺												第 张	共 张
标准化													
批准													

格式(3) 制图: 幅面:B2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2
1
XS902A
D2507-02A
2
1
100u/16v
C901A
C905A 0.1
R901A
2.2k 1/6W
VD902A
IN4148
R903A
56k 1/6W
V902A
c1815
V901A
c1815
R902A
56k 1/6W
R904A
56k
1/6W
OUT
7805
N901A
IN
GND
R905A
120 1/6W
100u/16v
C902A
C906A 0.1
R906A
360 1/6W
R907A
5.6 1/6W
4
3
2
1
D5018-04A
XS903A
VD901A
IN4001
V905A
CD910
C903A
100u/16v
C907A 0.1
R911A
10k
1/6W
C904A
100u/16v
C908A 0.1
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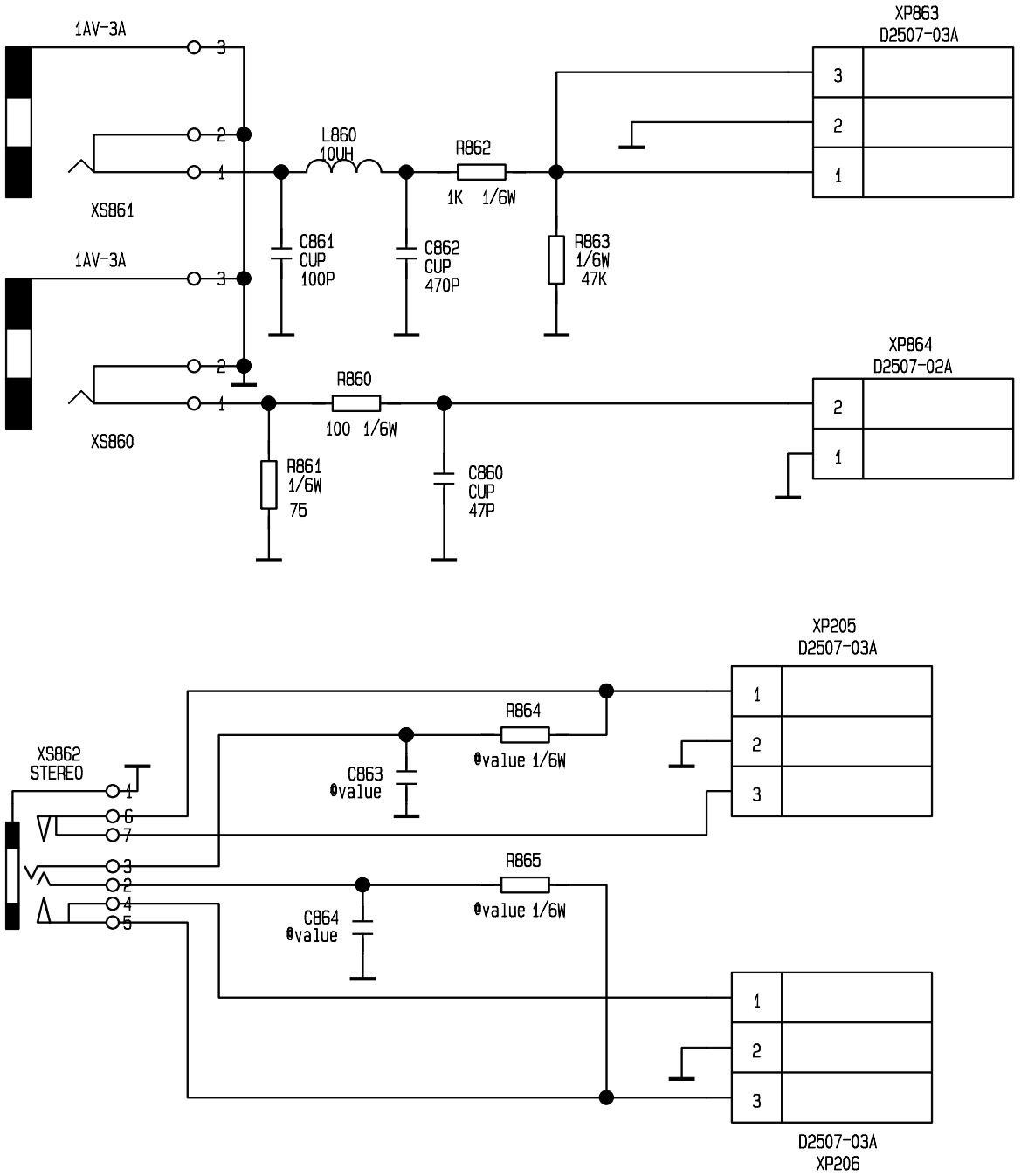
1/6W 150
R909A
1/6W 56k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2
1
XS861
L860
10UH
R862
1K 1/6W
XP863
D2507-03A
3
2
1
C861
CUP
100P
C862
CUP
470P
R863
1/6W
47K
1AV-3A
3
2
1
XS860
R860
100 1/6W
XP864
D2507-02A
2
1
R861
1/6W
75
C860
CUP
47P
XS862
STEREO
1
6
7
3
2
4
5
R864
@value 1/6W
C863
@value
XP205
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2
3
R865
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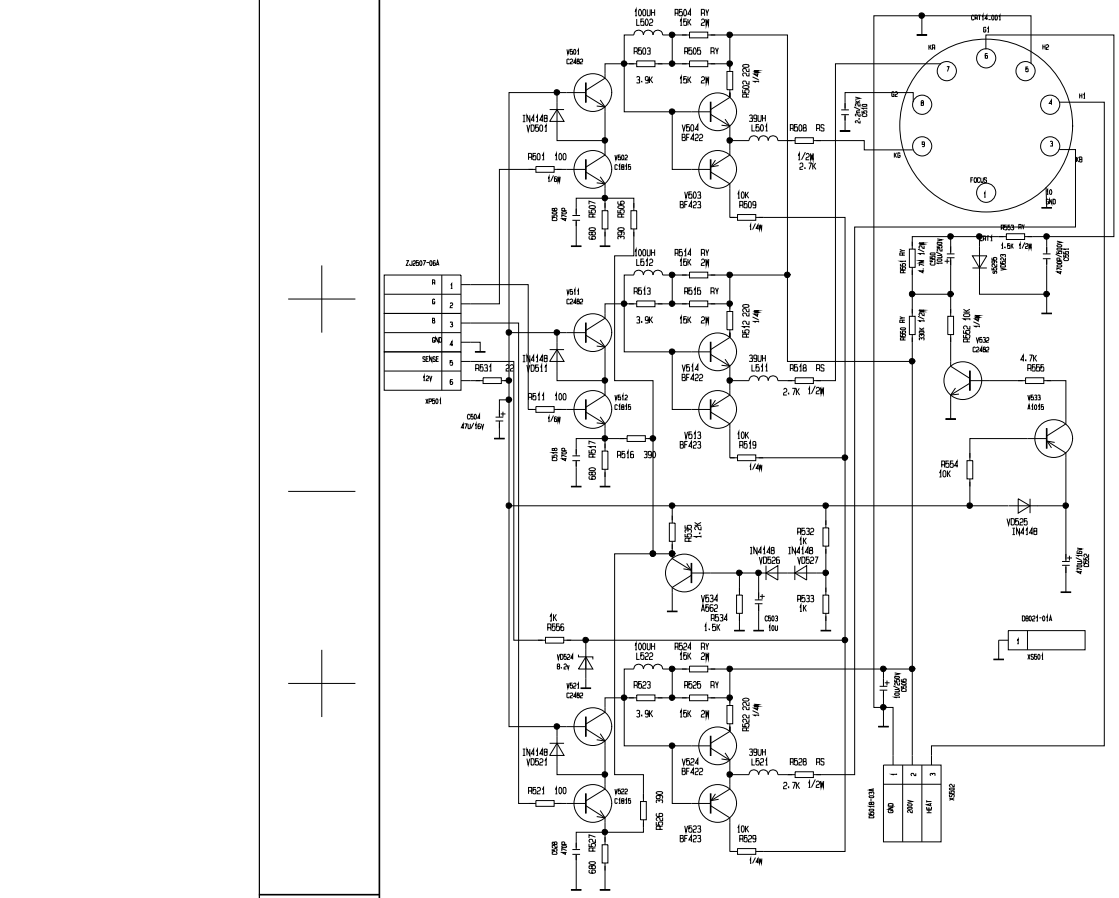
C864
@value
1
2
3
D2507-03A
XP206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R504 RY 15K 2W
R503 3.9K
R505 RY 15K 2W
R502 220 1/4W
V501 C2482
IN4148 VD501
V504 BF422
39UH L501
R508 RS 1/2W 2.7K
R501 100 1/8W
V502 C1815
V503 BF423
10K R509 1/4W
C508 47P
R507 680
R506 390
100UH L512
R514 RY 15K 2W
R513 3.9K
R516 RY 15K 2W
R512 220 1/4W
V511 C2482
IN4148 VD511
V514 BF422
39UH L511
R518 RS 2.7K 1/2W
R511 100 1/8W
V512 C1815
V513 BF423
10K R519 1/4W
C509 47P
R517 680
R516 390
R531 33
C504 47U/16V
XP501
Z-2507-06A
R
G
B
GND
SENSE
12V
100UH L522
R524 RY 15K 2W
R523 3.9K
R526 RY 15K 2W
R522 220 1/4W
V521 C2482
IN4148 VD521
V524 BF422
39UH L521
R528 RS 2.7K 1/2W
R521 100 1/8W
V522 C1815
V523 BF423
10K R529 1/4W
C508 47P
R527 680
R525 390
R535 1.2K
R532 1K
IN4148 VD526
IN4148 VD527
V534 A562
R534 1.5K
R533 1K
C503 fou
1K R555
VD524 8.2V
CRT14C-001
G1
K1
K2
K3
H1
H2
H3
FOCUS
R553 RY 1.5K 1/2W
R551 RY 4.3K 1/2W
C509 0.1 250V
VD530 SR2B
C507 470P/250V
R552 RY 330K 1/4W
R552 10K 1/4W
V532 C2482
4.7K R555
V533 A1015
R554 10K
VD525 IN4148
C506 47U/16V
D8621-01A
XS501
C505 100/25V
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XS502
GND
28V
HEAT

| | | |

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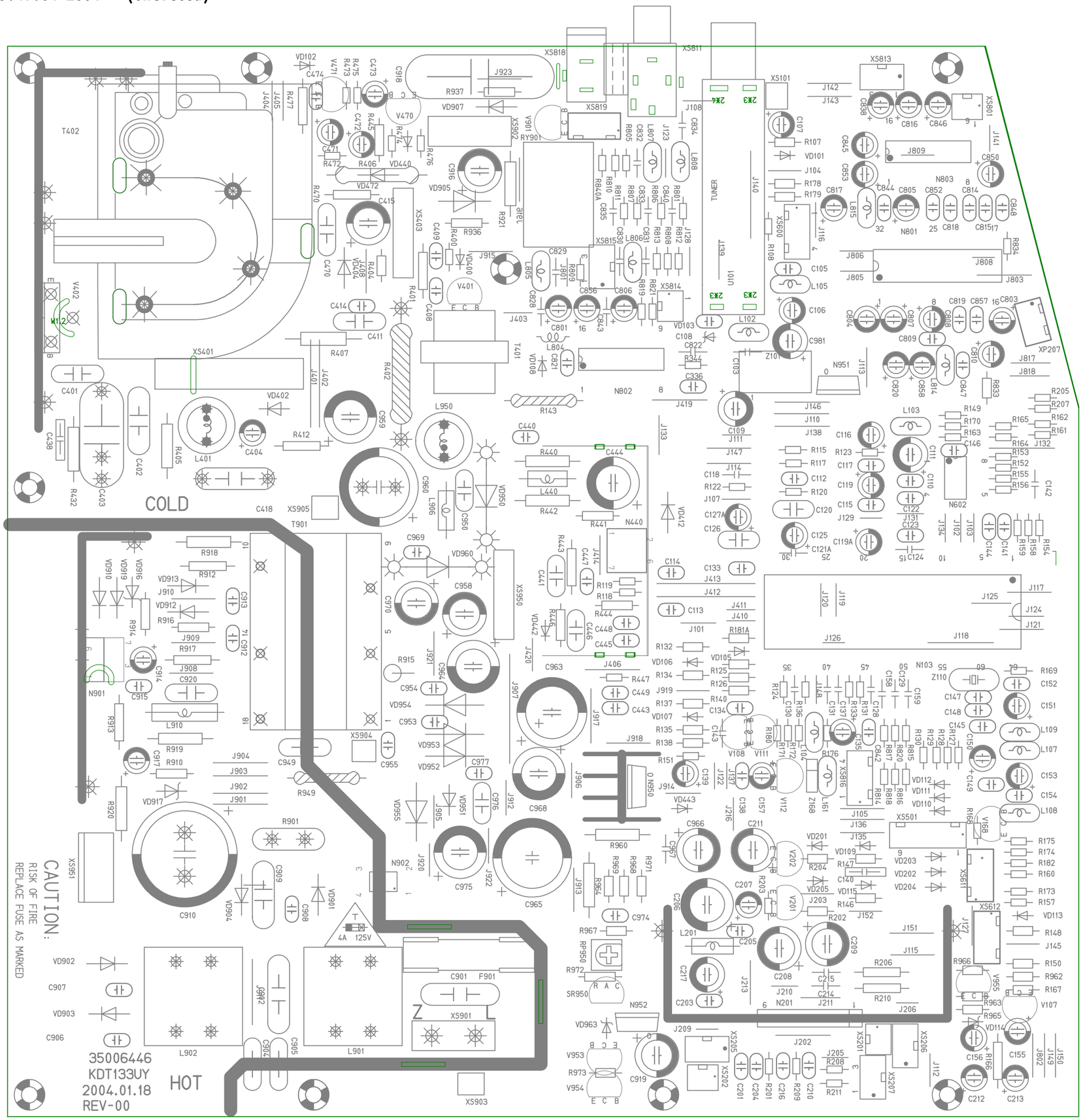

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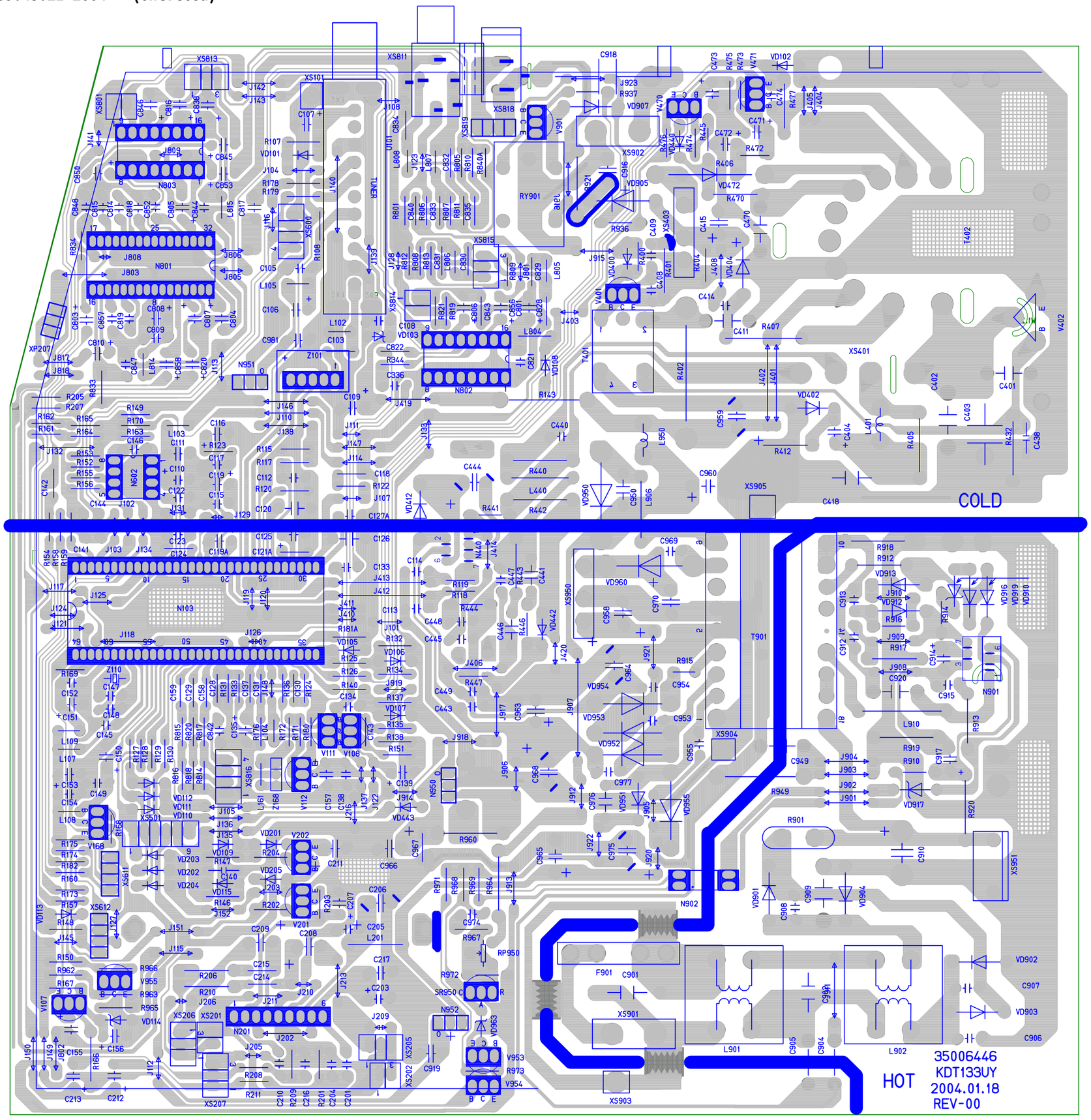

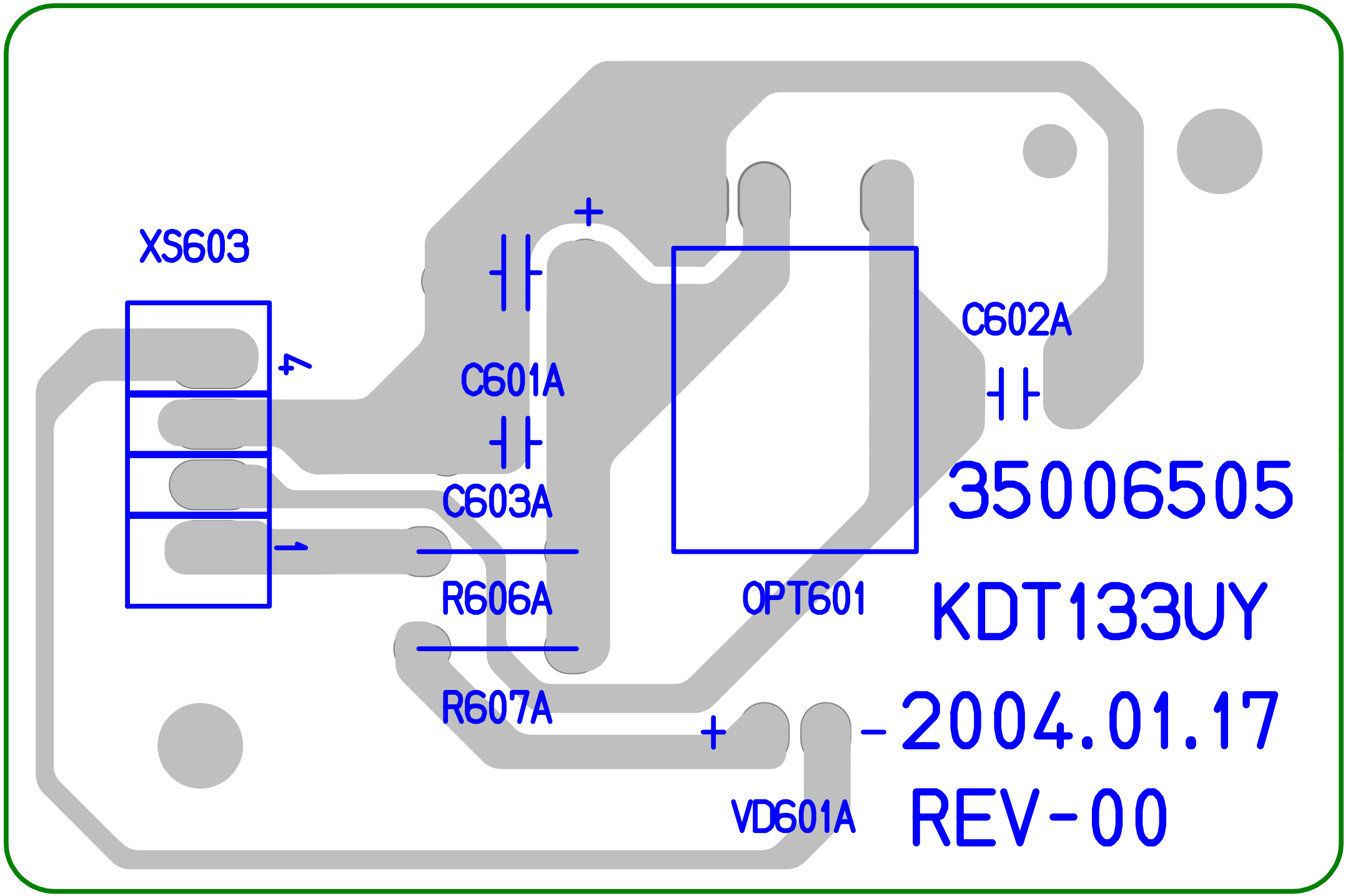
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R607A
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KDT133UY
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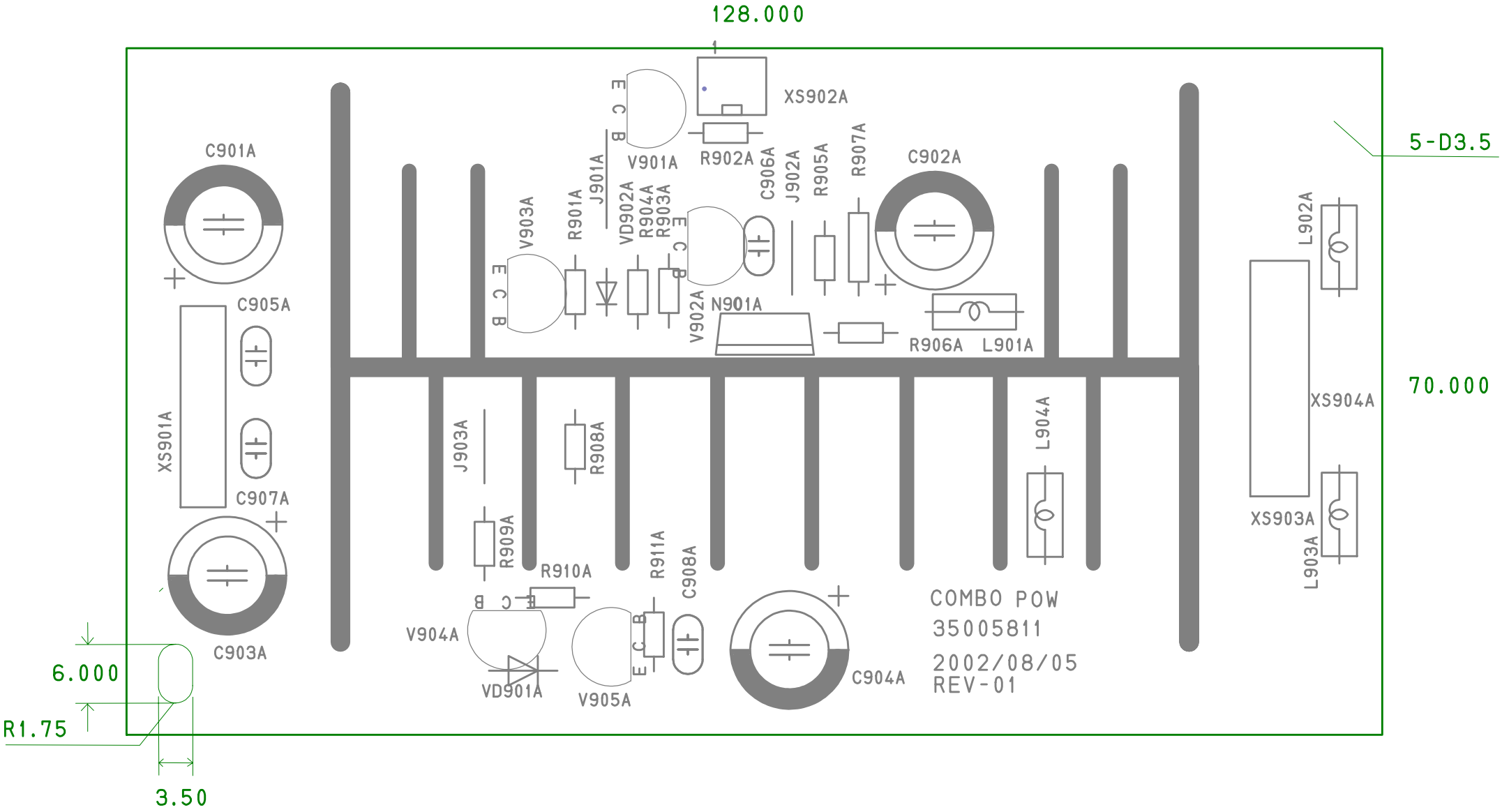
REV-00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70.000
C901A
C905A
XS901A
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XS902A
R902A
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J901A
R901A
V903A
VD902A
R904A
R903A
C906A
J902A
R905A
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C902A
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N901A
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XS904A
XS903A
L903A
L904A
J903A
R908A
R909A
R910A
R911A
C908A
V904A
VD901A
V905A
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COMBO POW
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3.50

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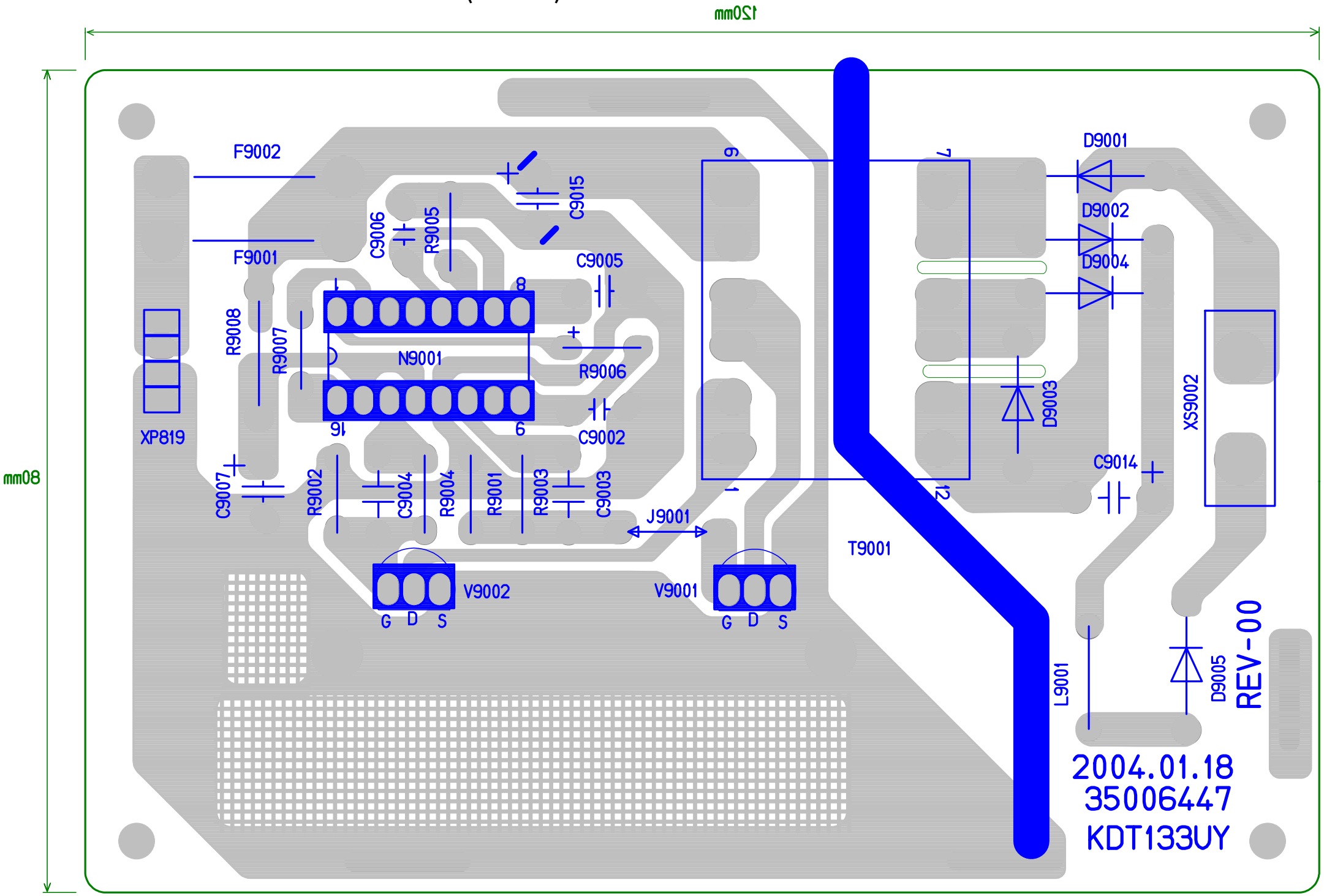

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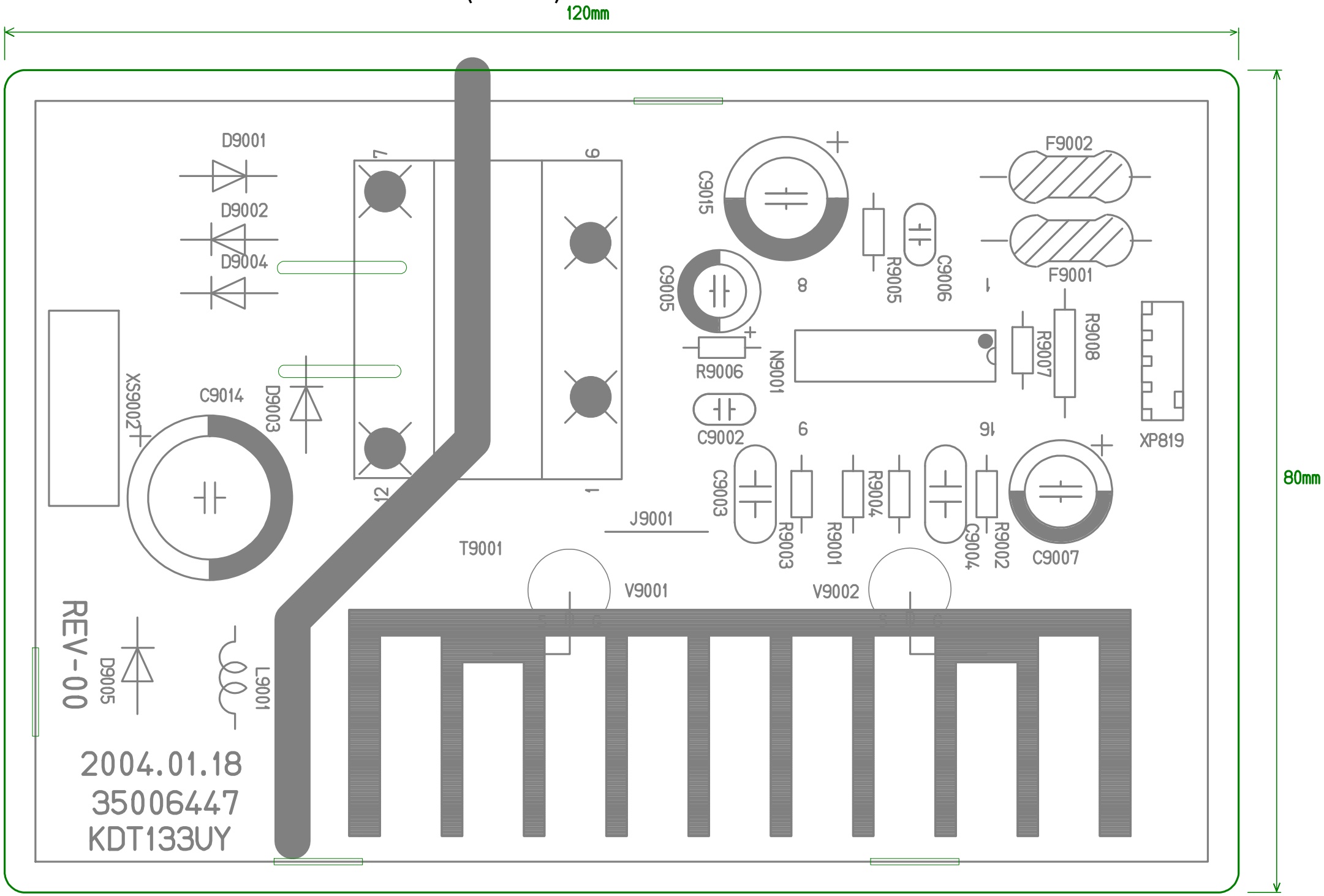

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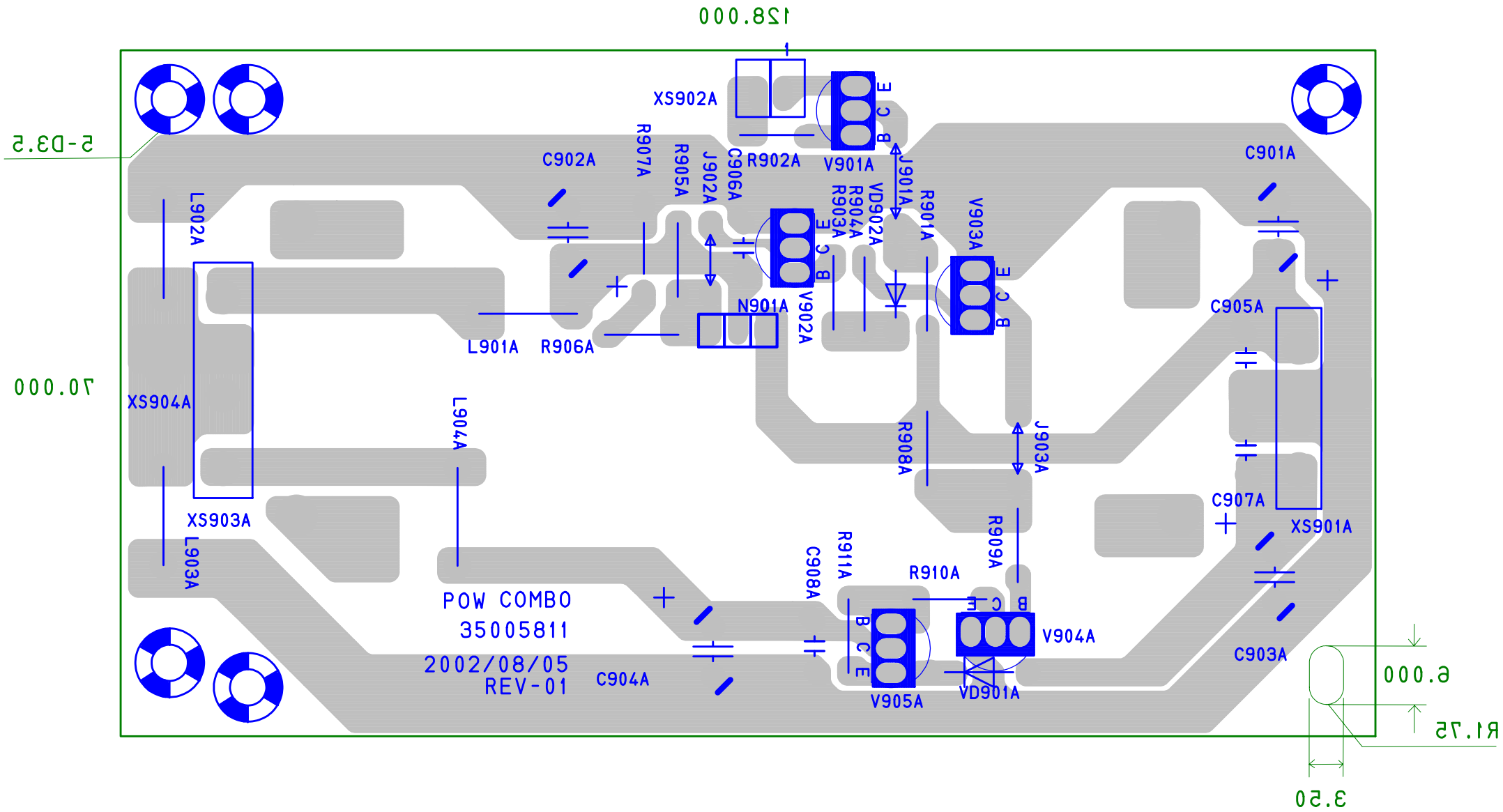

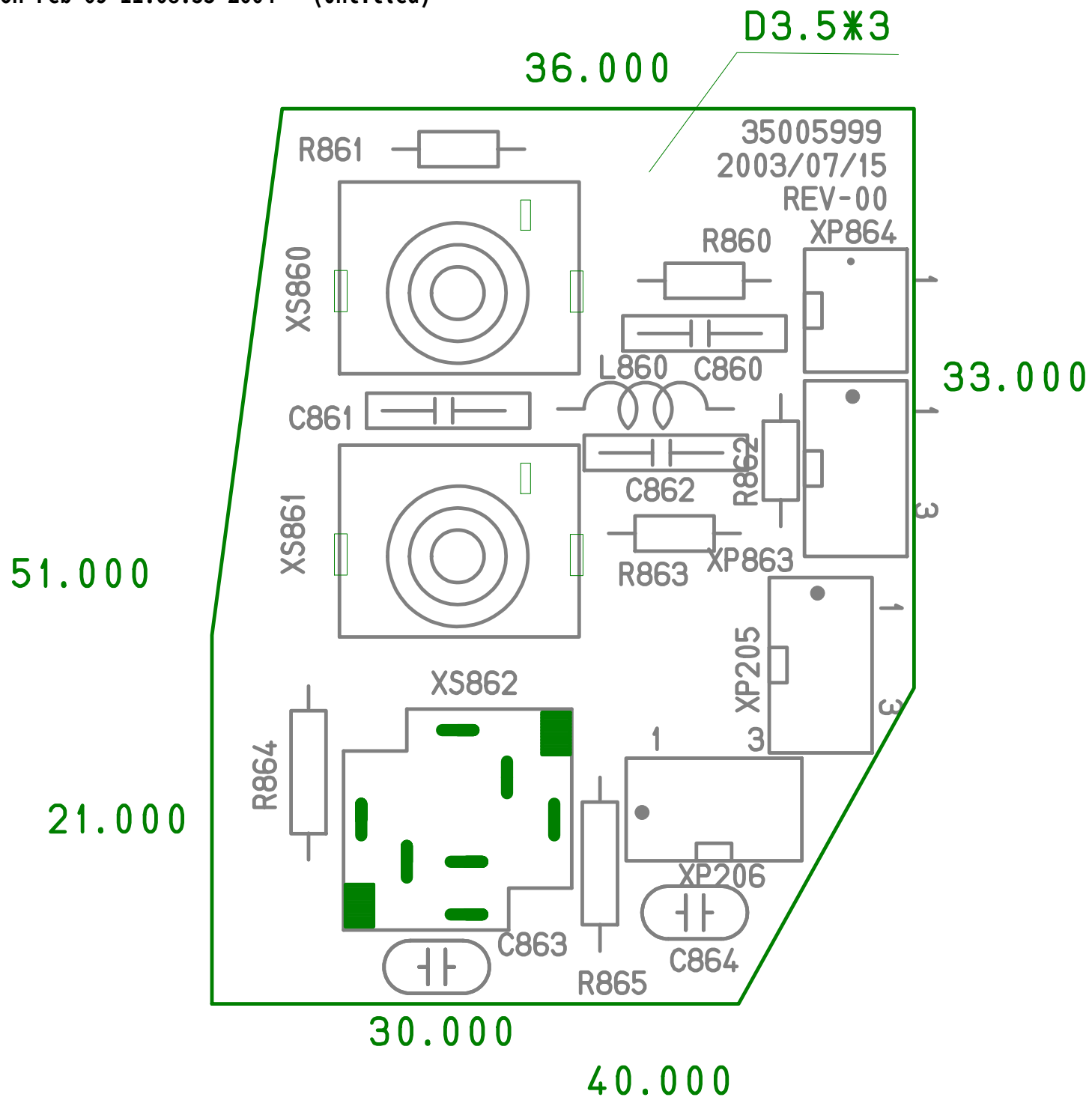
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35005999
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XP864
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R862
XS861
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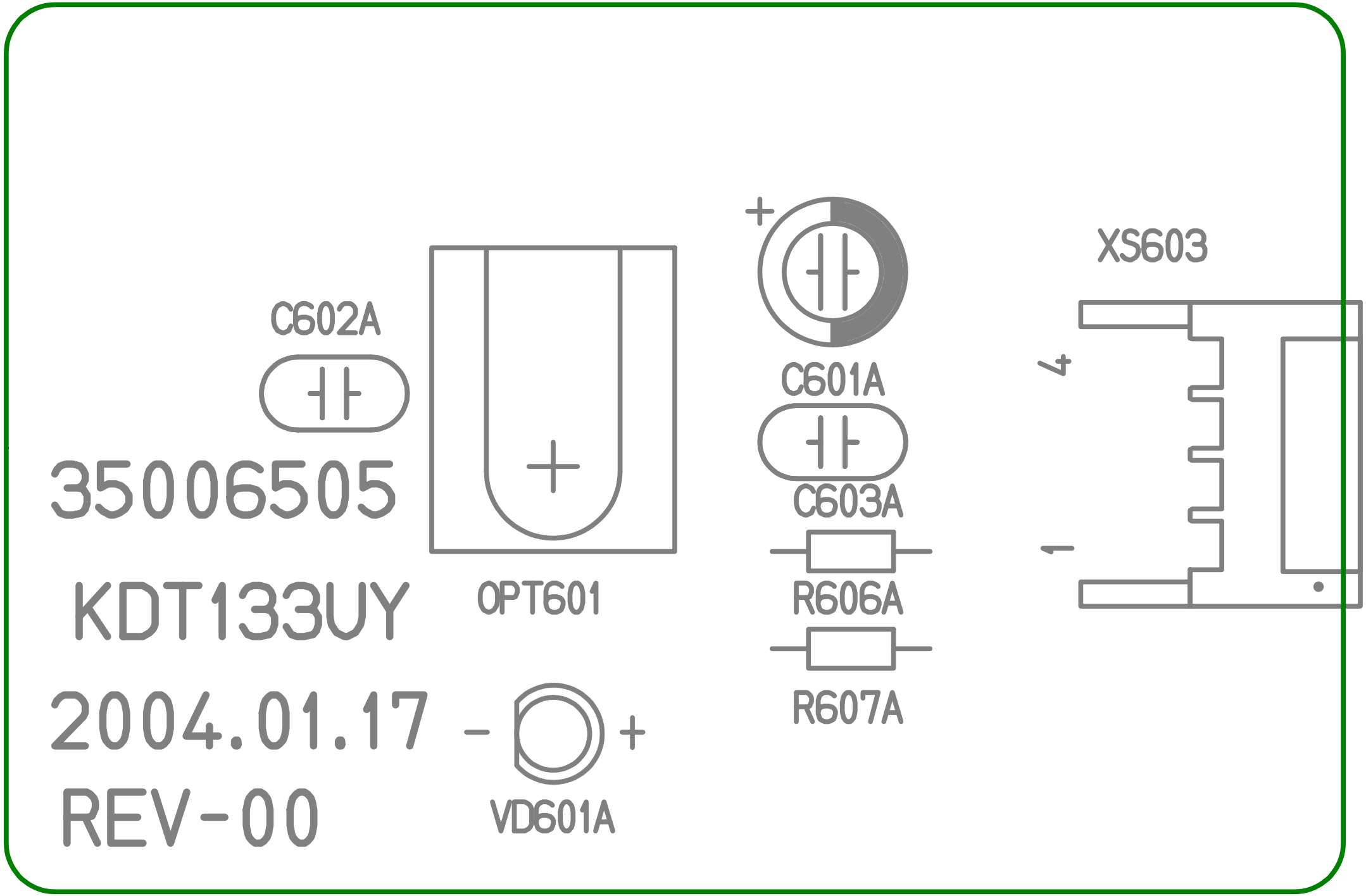
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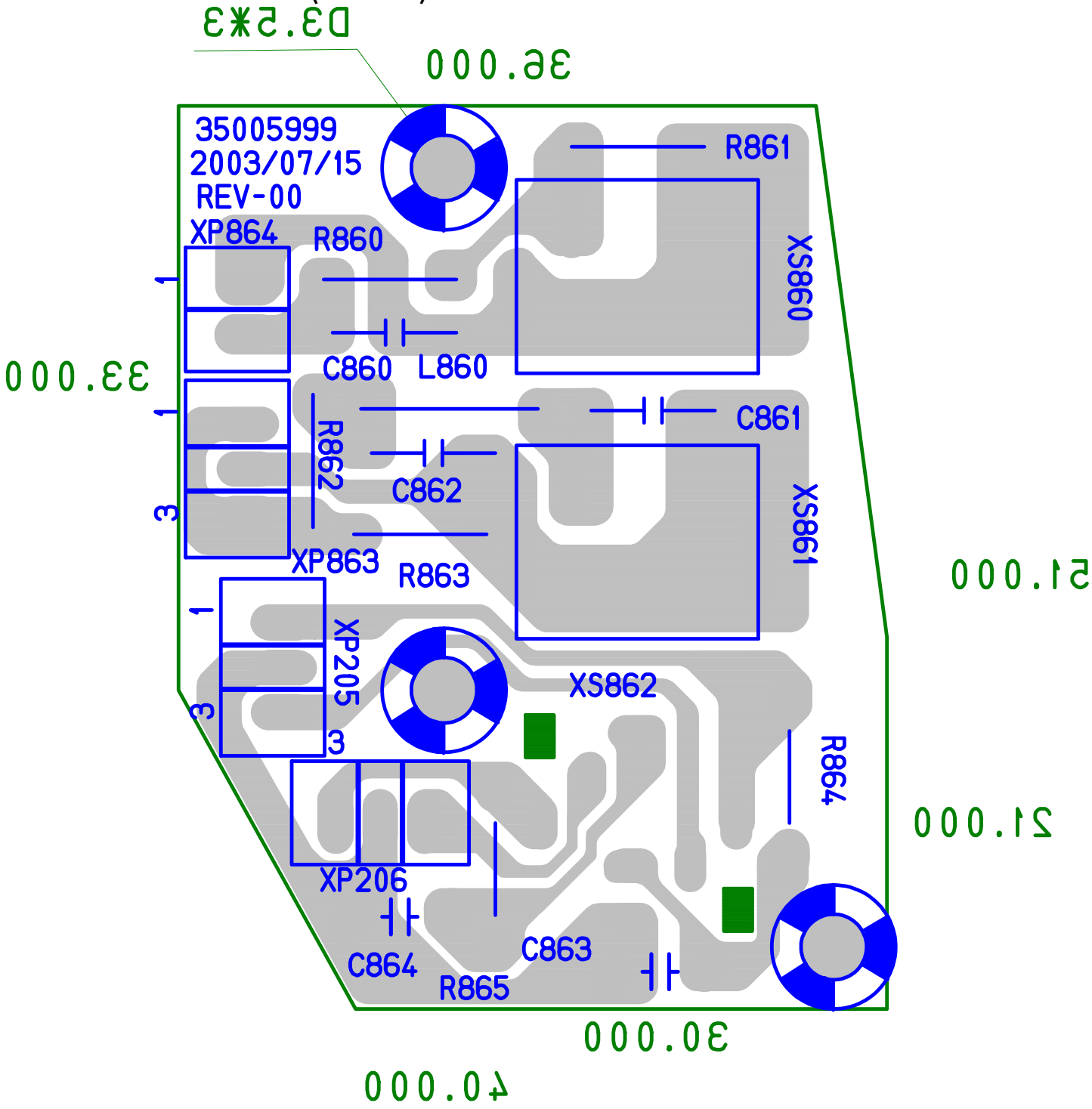
35005999
2003/07/15
REV-00
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R860
R861
XS860
C860
L860
C861
R862
C862
XS861
XP863
R863
XP205
XS862
R864
XP206
C864
R865
C863
D3.2*3
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33.000
21.000
21.000
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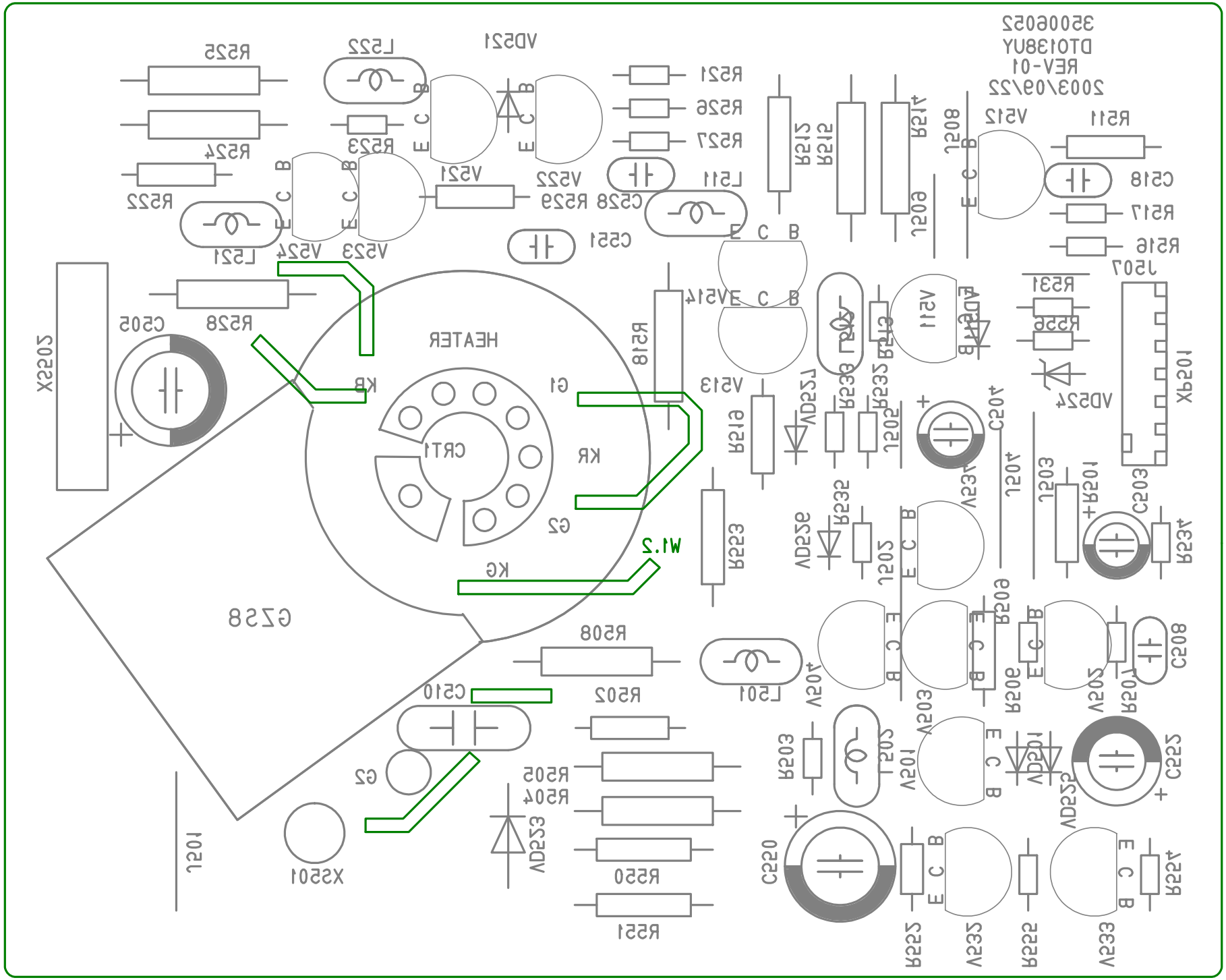
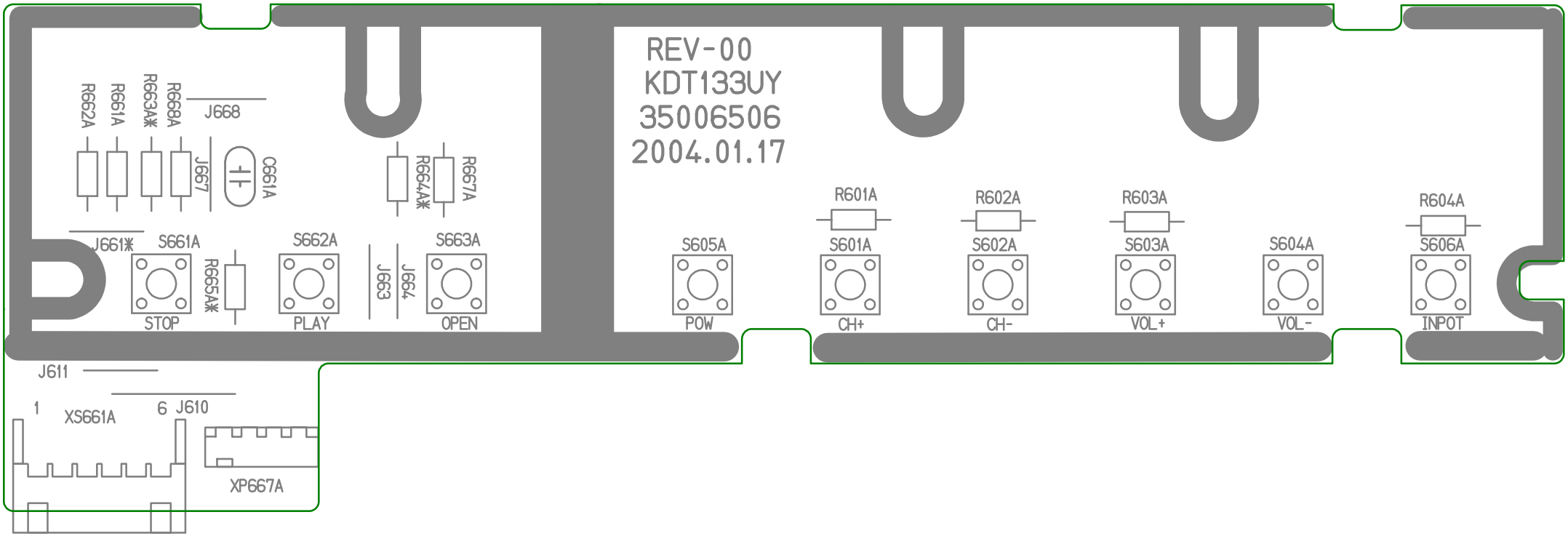
CAM350 PRO V 7.0 : Mon Feb 09 11:05:17 2004 - (Untitled)



CAM350 PRO V 7.0 : Mon Feb 09 09:41:34 2004 - (Untitled)



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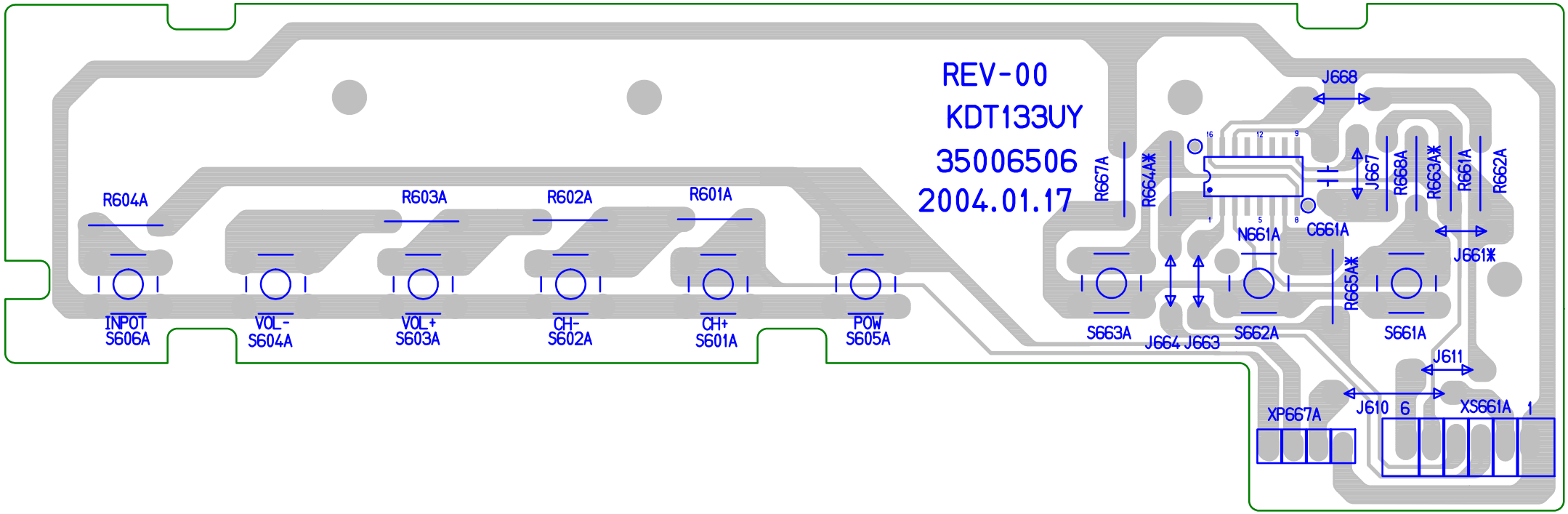
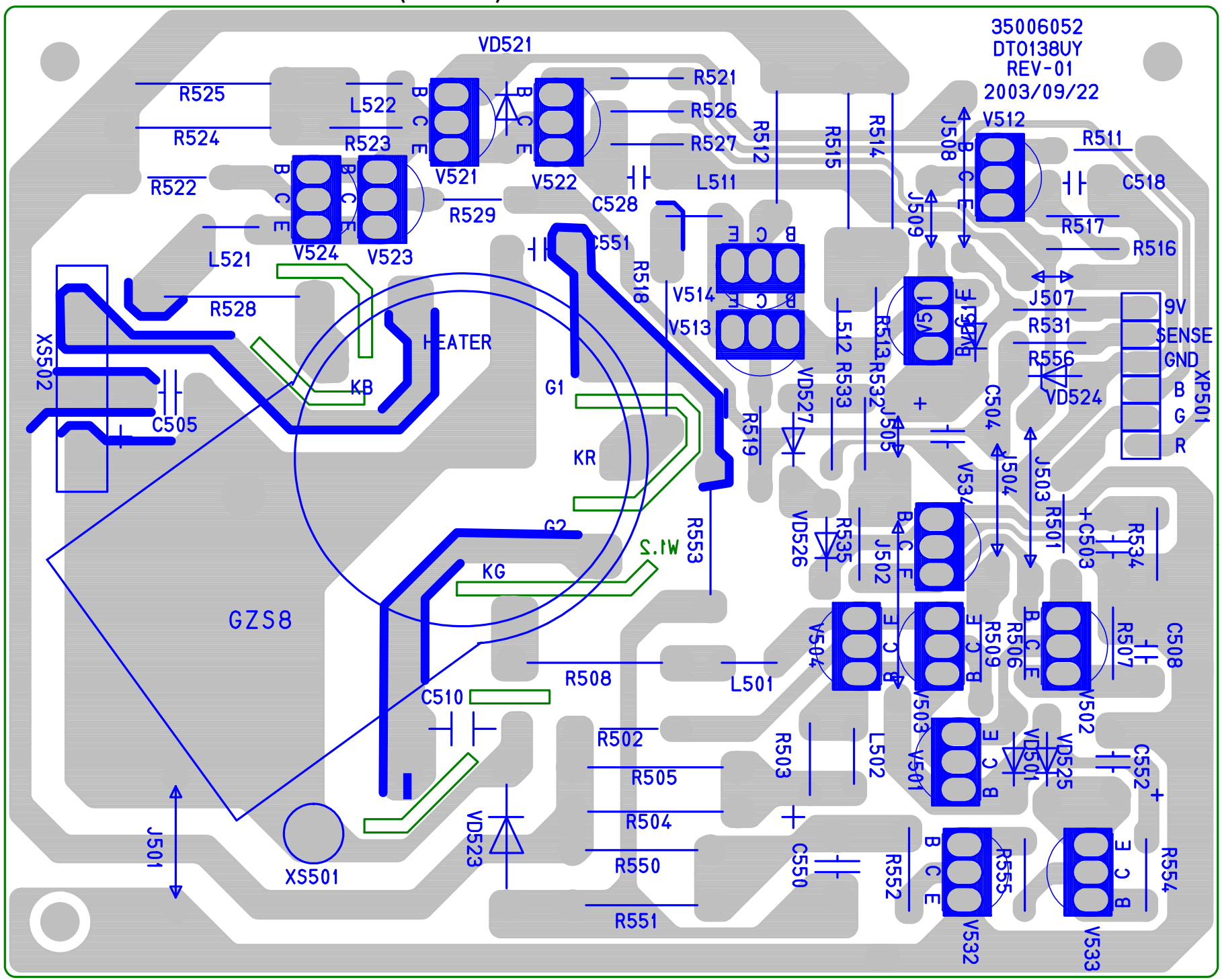


CAM350 PRO V 7.0 : Mon Feb 09 11:03:44 2004 - (Untitled)

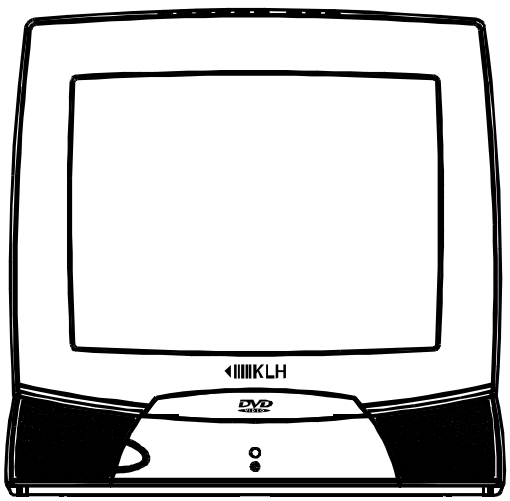


KLH

USER'S MANUAL

MODEL: KDT133UY

- CLOSED CAPTION CAPABILITY
- 181 CHANNELS
- SLEEP TIMER
- VIDEO AUDIO INPUT
- DVD、MP3、CD、CD-R、CD-RW
- AV STEREO
- V-CHIP
- MULTI ANGLES
- MULTI-SOUNDTRACK LANGUAGES
- MULTI-SUBTITLE LANGUAGES
- MULTI-SPEED PLAYBACK
- HEADPHONE OUTPUT
- FOR DOMESTIC & VEHICLE USE



13" 181 CHANNEL CABLE COMPATIBLE COLOR TELEVISION & DVD COMBO WITH REMOTE CONTROL

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates important instructions accompanying the product.

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

WARNING

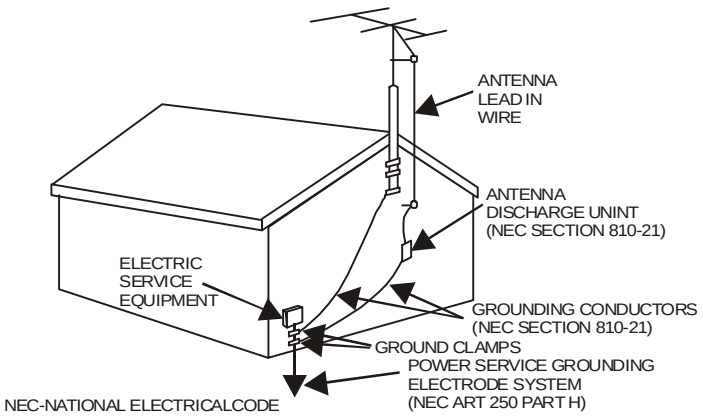
To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

The apparatus must not be exposed to dripping or splashing. Objects filled with liquids, such vases or drinking glasses, must never be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel.
    Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrode. See following example.



16. Do not plug into AC power supply or DC power supply simultaneously.

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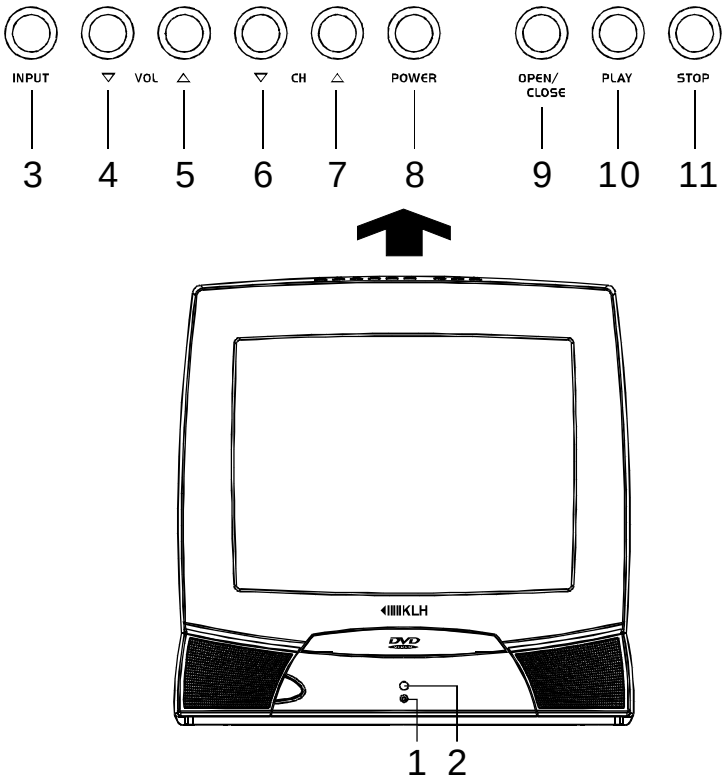
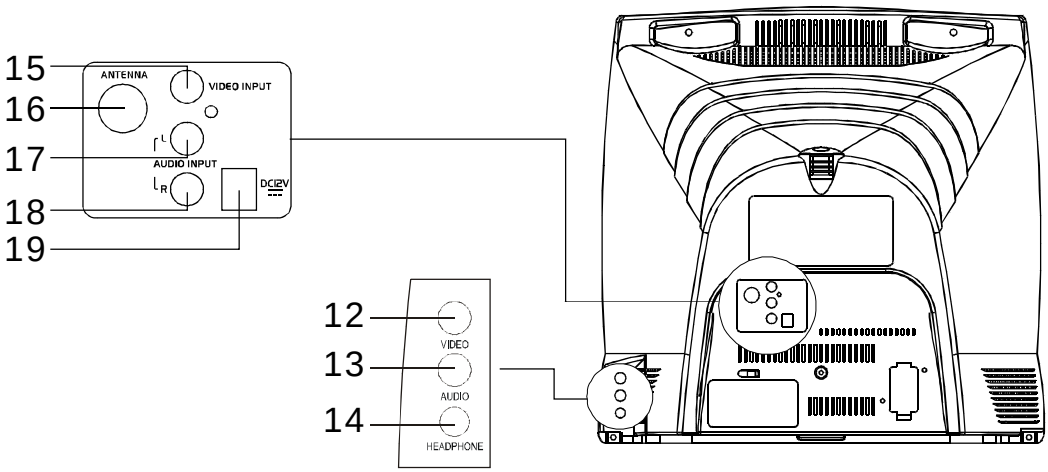
Overview

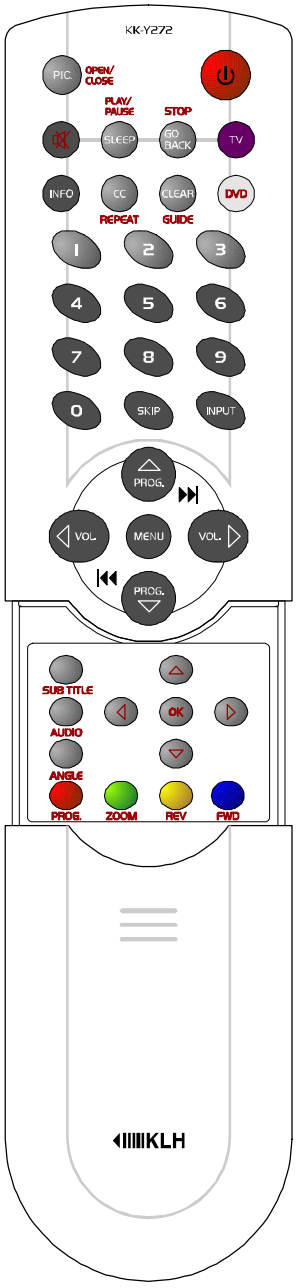
1. Power Indicator
2. Remote Sensor
3. Input Button
4. Volume Down Button
5. Volume Up Button
6. Channel Down Button
7. Channel Up Button
8. Power Button
9. Open/Close Button
10. Play/Pause Button
11. Stop Button
12. Front Video Input Jack
13. Front Audio Input Jack
14. Headphone Jack
15. VID1 Video Input Jack
16. Antenna Jack
17. VID1 Audio Input (L) Jack
18. VID1 Audio Input (R) Jack
19. DC 12±1 V/7A Input Jack



CAUTION:Do not plug into AC power supply or DC power supply simultaneously.



The Buttons On the Remote control



TV Function Buttons

TV Press to put the remote in the TV mode.

Mute Lowers the volume to its minimum level. Press again to restore volume.

POWER Turns the TV on and off.

VOL. (left and right) buttons Decrease or increase the TVs volume.

PROG. (up and down) buttons Scan up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

Go Back Returns you to the previous channel. If the user is in the menu system, Go Back will take the user to the previous menu screen.

CLEAR Remove any menu or display from the screen and returns you to TV reviewing. For menu with digit inputs, pressing CLEAR button will clear the last number entered.

MENU Displays the TV's Main menu. When a menu is on the screen, press MENU to toggle the item that is highlighted.

SLEEP Sets sleep timer(see page 12)

PIC. Displays picture presets.

SKIP "Browse" feature. Pressing this button twice will begin channel scan, pressing it again will stop at current channel.

CC Turns on or turns off the closed caption.

INFO Displays channel information.

0-9 (Number buttons) Enter channel numbers and time settings directly through the remote control. To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the first digit for two seconds until two dashes appear to the right of the number, then add the second two. Example: to tune a channel 123, press and hold 1 for two seconds, then press 2, then press 3.

INPUT Toggles the set between available AV inputs and RF(antenna) input.

Other buttons: Buttons that are on the remote control, but which are not referenced on above list, are not available for TV function.

DVD Function Buttons

DVD Press DVD button to put the unit in the DVD mode.
POWER Turns the TV on or off..
VOL. (left and right) buttons Decreases or increases the TV's volume.
MUTE Lowers the volume to its minimum level. Press again to restore volume.
>>I, I<< >>I advances to the next chapter or track. I<< reverses to the preceding chapter or track.
AUDIO Press to select language options(only for the disc that are multi language encoded).
MENU Allows you to see menus and other options that are available on the current disc (if the disc contains this information).
Arrow buttons (up, down, left, right) Press the arrow buttons to move through the on-screen menu system.
OK button When a menu is on the screen, press OK to select the item that is highlighted.
GUIDE Press this button while the DVD player is stopped to display the DVD setup menu.
REPEAT Press to repeat a chapter or title on DVDs, or track or disc on Audio CDs.
INFO Press this button while you're playing a disc to see the title, chapter and time information. Press again to remove information on-screen.
SKIP pressing this button will advance the DVD forward 30 seconds.
0-9 (Number buttons) Use to directly input information such as chapter numbers, track numbers and time.
FWD Allows you to search forward through a disc while it is in play mode. Repeatedly press to increase speed.
PLAY/PAUSE Begins disc play (and closes disc tray if it is open) or Pauses disc play. When disc play is paused, press PLAY to resume play.
ANGLE Press to choos a viewing angle to view the same image(only for the discs that are multi angle encoded).
SUBTITLE Press to select a subtitle language(only for the discs encoded with multi subtitle language).
REV Allows you to search backward through a disc while it is in play mode. Repeatedly press to increase speed.
STOP Stops disc play.
ZOOM Use to zoom in on the picture when playing DVD discs.
OPEN/CLOSE Press this button to open/close the DVD drawer.
Other buttons: Buttons that are on the remote control, but which are not referenced on above list, are not available for DVD function.

Loading batteries: Remove the lid of the battery compartment, insert 2 size AAA batteries with the polarities as indicated inside the compartment then replace the lid.
Note:
1. One set of batteries will last approximately 1 year under normal use.
2. If you do not intend to use the remote control for a long period of time, remove the batteries to avoid damage due to leakage.

Connect to the mains
Insert the power plug into a 120V AC convenience outlet. Unplug the unit if it will not be used for a long period time.

Power on/off
Turn on the unit by pressing the POWER button on the front panel (or by pressing the POWER button on the remote control).

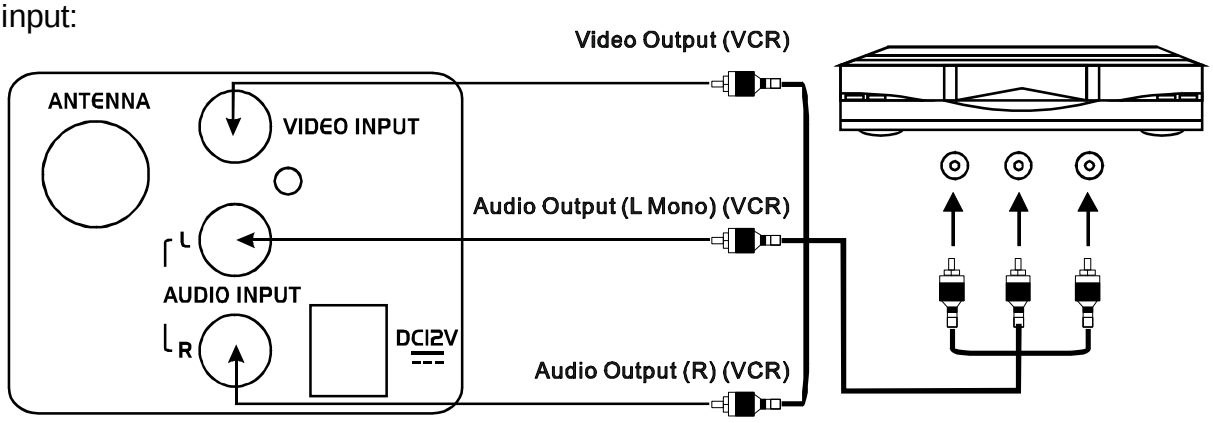
Energy saving feature
After 15 minutes with no signal, the TV will automatically switch off to conserve energy. To re-activate, press the power button on the front panel or on the remote.

Change channels
Changes channels by using the CH / button on the front of the TV (or the PROG. / button on the remote control). When ANTENNA is set to “AIR”, channels are selected by entering two digits on the remote control. For example, pressing “02” sets the TV for channel 2. When ANTENNA is set to “CABLE”, you can enter three digits from the remote control. For channels above 100, press and hold the “1” digit for 2 seconds. The on screen display shows “1—“, then input the other two digits.

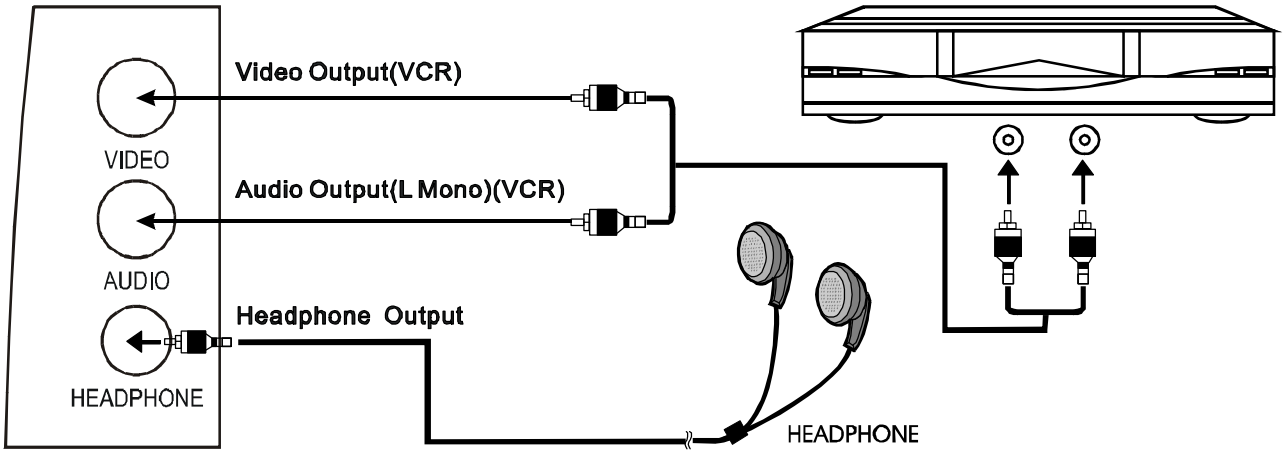
Volume UP/DOWN
Adjusts the sound level by using the VOL△/▽ button on the front of the TV (or with the VOL◁/▷ button on the remote control).

You can connect an external VCR, LD player, VCD player, video camera or other audio/video equipment to the VID1 or Front auxiliary input.
If the device you are connecting is not stereo, then simply connect its audio output line to the AUDIO L socket.

1. VID1 is the auxiliary input located on the back panel. Select VID1 to use an external device connected to this input:



2. In “Front” mode, external equipment connected to the auxiliary input located on the side panel can be watched:



DVD Player Basics

The first time you turn on the DVD player, press GUIDE button while the player is stopped to set up the DVD menu system (see page 18).

Regional coding

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes don't match, the disc won't play. This player's code is Region 1.

Loading and Playing Discs

Your DVD player plays DVD discs, audio CD discs, MP3 discs and CD-R/CD-RW discs. Before you load a disc, make sure that it is compatible with the player. To Load and Play a Disc:

1. Press the DVD button on the remote control to turn on the DVD player. You can also use the INPUT button on the front of the unit to activate the DVD player.
2. Press the OPEN/CLOSE button on the front of the DVD player (or on the remote control). The disc tray opens.
3. Place a disc gently into the tray with the disc's label facing up.
4. Press the OPEN/CLOSE button on the front of the DVD player (or on the remote control). The disc tray closes.
5. Press the PLAY button on the front of the DVD play (or on the remote control).
   The DVD player reads the disc's table of contents, and then one of two things happens depending on how the disc was programmed:
   . The disc starts playing. or
   . The disc menu appears on the screen.

One of these options will start disc play. Highlight that option using the "up" "down" or "left" "right" arrows on the remote control. Then press OK on the remote control.

TV Function Menu

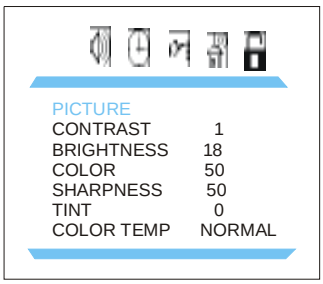
Menu basic operation

1. To enter a menu, press the menu button on the front of the TV(or on the remote control), then use the VOL △/▽ button on the front of the TV(or VOL.◁/▷ button on the remote control) to select the icon.
2. Press CH △/▽ button on the front of the TV (or PROG . △/▽ button on the remote control) to select the mode you want to change.
3. Use the VOL △/▽ button on the front of the TV (or VOL.◁/▷ button on the remote control) to change the setting.
4. Press MENU button on the front of the TV (or on the remote control) to return the previous menu. You can press the MENU button on the remote control to exit the menu operation directly.

Note: Make sure that the remote control is in the TV mode.

Using the PICTURE menu

The PICTURE menu will allow you to make an adjustments to your picture settings. It will also allow you to customize the picture mode based on what you are viewing.

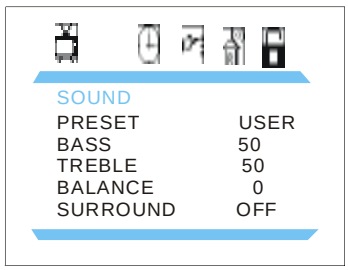


Figure

CONTRAST	Left/right adjusts the difference between the light and dark areas of the picture.
BRIGHTNESS	Left/right darkens/brightens the picture.
COLOR	Left/right decreases/increases color intensity or saturation.
SHARPNESS	Left/right softens/sharpens the picture detail.
TINT	Adjusts the balance between the red and green levels.
COLOR TEMP	Provide three automatic color adjustments: Cold for a more blue palette of picture color; Normal; Warm for a more red palette of picture color.

Using the SOUND menu

The SOUND menu offers enhance audio options.

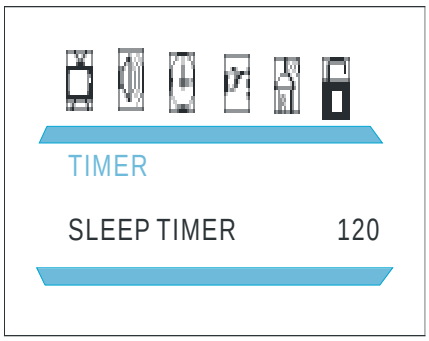


Figure

PRESET Provides four preset audio settings (USER /SPEECH/THEATER/MUSIC).
BASS Left/right deceases/increases low pitched sound.
TREBLE Left/right deceases/increases high pitched sound.
BALANCE left/right deceases/increases relative level of left and right speakers.
SURROUND Turns thesurround sound on or off.

Using the TIMER menu

The TIMER menu allows you to set the sleep timer.

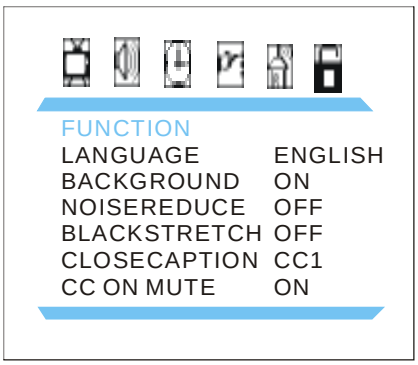


Figure

SLEEP TIMER Lets you set the time you want the TV to turn itself off after a given time. Press the VOL◁/▷ button to setup the timer(up to two hours).

Using the FUNCTION menu

The FUNCTION menu provides several options for setting up your TV.



Figure

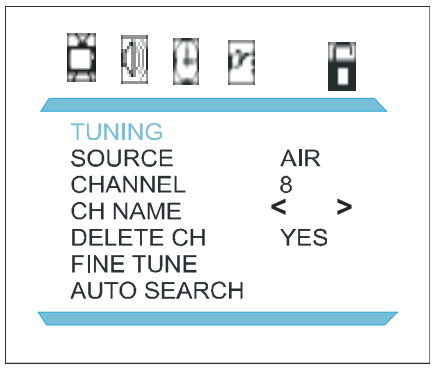
LANGUAGE Select from available languages to hear the one you desire. (You can select English,

	French or Spanish).
BACK GROUND	Turns on or off the background function when no signal is received.
NOISE REDUCE	Turns on or off the noise reduce function.
BLACK STRETCH	Turns on or off black stretch function.
CLOSED CAPTION	Offers eight closed captioned modes, including four text modes.
CC ON MUTE	When turned on, automatically brings up colsed captioning ing when the MUTE button is pressed.

Note: The BACK GROUND function isn't available in RF input.

Using the TUNING menu

The Tuning menu allows you to configure the TV settings.

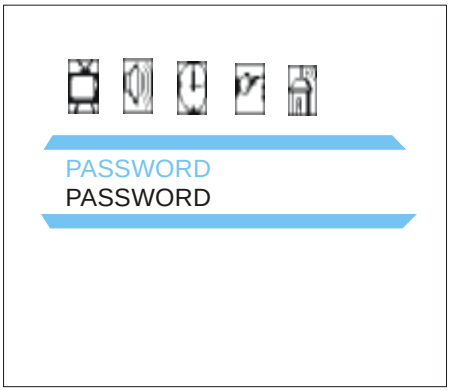


Figure

SOURCE	Lets you select AIR or CABLE. Select AIR to receive over the air TV broadcasts. Select CABLE to receive CATV signal.
CHANNEL	Use the VOL △/▽ button in front of TV (or VOL.◁/▷ button on the remote control) to scroll up and down through the channels available via your antenna. You can enter the channel number directly using the number buttons.
CH NAME	Allows you to name a channel. The channels you can name are only from 2 to 11 in AIR. Use the VOL △/▽ button on the front of the TV (or VOL.◁/▷ button on the remote control) to enter a five-character label for each channel.
DELECH	Select YES to skip the channel. Select NO to ont skip the channel.
FINE TUNE	Adjusts the received frequency for better reception.
AUTO SEARCH	Used to initiate the automatic channel search and store function.

PARENTAL CONTROL

The PARENTAL CONTROL menu allows you to password lock access to channels that you do not want your children to watch.

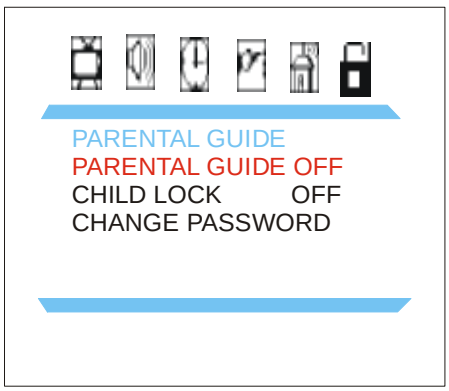


Figure

PASSWORD A password is required to access the PARENTAL CONTROL menu. The initial password is “1234”. You should change this password to one of your own choosing. If you forget your password, you can enter the super password “5898” in order to re-gain access the PARENTAL CONTROL menu.

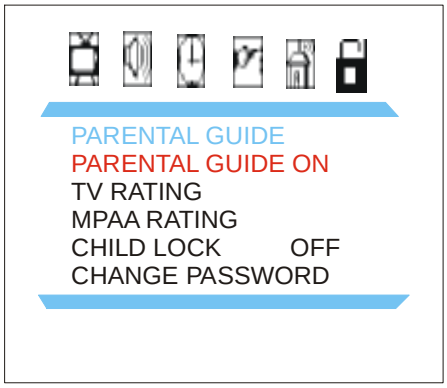
How to use the PARENTAL CONTROL feature

When you enter the correct password, the PARENTAL GUIDE menu will display on the screen(see figure below).



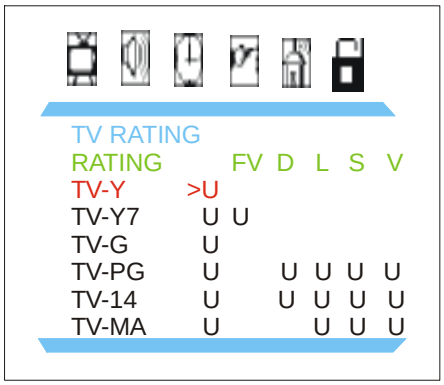
Figure

PARENTAL GUIDE Select “OFF” to ignore the V-CHIP. Select “ON” to activate the V-CHIP(see the figure below).



Figure

TV RATING Select it to display the submenu(see the figure below).



Figure

Tip: view(V), block(B),”>”(selection indicator)

The TV ratings and content themes you can block are listed in the following two tables:

Hierarchy of Age-Based Ratings	
TV-Y	All Children
TV-Y7	Directed to Children 7 years and older
TV-G	General Audience
TV-PG	Parental Guidance Suggested
TV-14	Parents Strongly Cautioned
TV-MA	Mature Audience Only

table 1

Content Themes	
D	Sexually explicit dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy Violence
TV-Y	All Children

table 2

Blocking(or Viewing)TV Ratings

You can automatically block(or view) all program ratings above(or below) to a specified TV rating level. To block(or view) channels with higher(or lower) ratings:

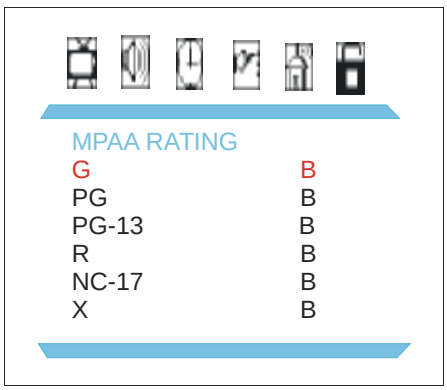
1. Press the CH △/▽ button on the front of the TV (or PROG.△/▽ button on the remote control) to highlight the lowest(or highest) level rating that you want to block(or view).
2. Press the VOL △/▽ button on the front of the TV (or VOL.◁/▷ button on the remote control) to toggle between V and B. Then the level rating and all higher (or lower) ratings automatically change to B(or V).
3. Press the menu button on the front of the TV (or on the remote control) to return to the previous menu.

Blocking(or Viewing) Specific Content Themes

You can block(or view) programs based on their content(see table 2). When you select “block”(or “view”) for programs because of particular ratings, you automatically block(or view) those programs equal to or higher(or lower)than your selection.

1. Press the CH △/▽ button on the front of the TV (or PROG.△/▽ button on the remote control) until the disired level of content you want to block(or view) is highlighted. That level will be denoted on the screen with the “>”.
2. Press the VOL △/▽ button on the front of the TV (or VOL.◁/▷ button on the remote control) to change content status to B(or V). Then all higher(or lower) rated levels will automatically change to B(or V).
3. Press the menu button on the front of the TV (or on the remote control) to return to the previous menu.

MPAA RATING Select it to set up Movie Ratings(as the figure below shown).



Figure

The movie ratings you can block are listed in the following table:

Hierarchy of MPAA RATINGS	
G	All Children
PG	Directed to old Children
PG-13	General Audience
R	Parental Guidance Suggested
NC-17	No one under17 admitted
X	No one under 17 admitted

Table

Blocking(or Viewing) MPAA RATING

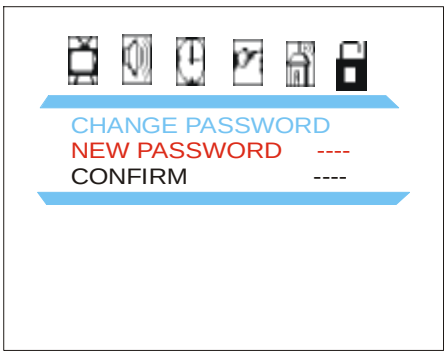
When you select “block”(or “view”) for a specific movie rating, the system will automatically block(or view) all other movies equal to or higher(or lower) than your selection.

1. Press the CH △/▽ button on the front of the TV (or PROG.△/▽ button on the remote control) to highlight the lowest(or highest) rating that you want to block(or view).
2. Press the VOL △/▽ button on the front of the TV (or VOL.◁/▷ button on the remote control) to change it to B(or V). All higher(or lower) ratings will automatically change to B(or V).
3. Press the menu button on the front of the TV (on the remote control) to return to the previous menu.

NOTE: When the program material exceeds the chosen rating, the picture will display background and mute will be engaged. To watch a blocked program, you must reset the rating level.

CHILD LOCK — Selecting “ON” prevents the TV from being used until the proper password is entered. The CHILD LOCK does not take effect until the next time the TV is turned on.

CHANGE PASSWORD — Allows the password to be changed. After selecting this option, the figure below will display on the screen.



Figure

NEW PASSWORD — Enter a new password. You can use number buttons to input a new password.

CONFIRM — Enter the same number to confirm the new password.

DVD Menu System

The DVD player setup system lets you set up features for your DVD player. The setup menu is accessed when the DVD player is stopped.

DVD Menu Basic Operation

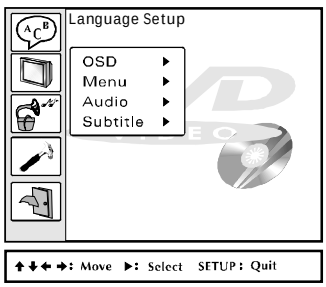
1. Stop the DVD player and make sure that the remote control is in the DVD mode.
2. Press the GUIDE button on the remote control, the SETUP MENU (main) will be displayed.
3. Press the △/▽ button to highlight the item desired, then press the OK button to select it and move to the submenu.
4. Press the ◁/▷ button to move the pointer. Use the △/▽ button to select the desired option and press OK button. setup of the current function is now complete.
5. To end the setup, press the GUIDE button.

In the SETUP MENU, you may choose any of the following options :

LANGUAGE SETUP

This option is used to set the DVD language functions, with option of OSD, MENU, AUDIO and SUBTITLE.

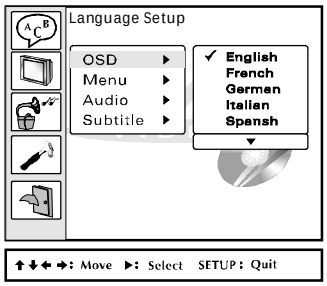
figure



1 OSD(On Screen Display)

This setting selects the language that screen text will be displayed in.

figure

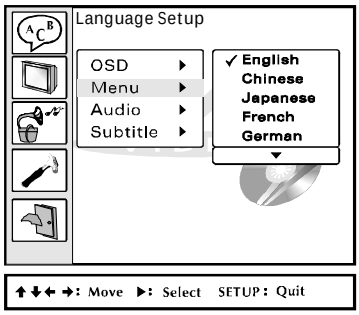


ENGLISH: On-screen display (OSD) text appears in English.
SPANISH: OSD text appears in SPANISH.
FRENCH: OSD text appears in FRENCH.

2 MENU

This setting controls the language used to display DVDs' menus. This DVD player provides ENGLISH, FRENCH, SPANISH etc. as the film's menu language options. For example, if you normally want to see

disc menus in English, select English.
figure

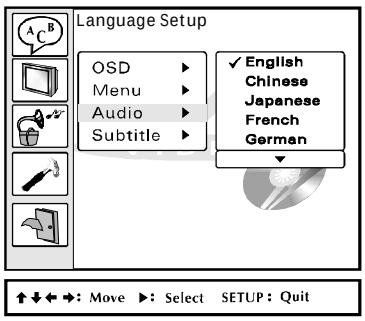


3 AUDIO

Choose the language that you prefer. If multiple languages are programed on the disc, the setting you choose here determines the language you hear.

This DVD provides ENGLISH, FRENCH, SPANISH etc. as the built-in disc dubbing language options.

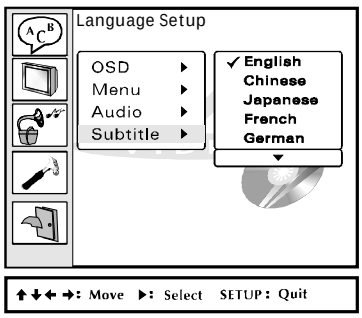
figure



4 SUBTITLE

This DVD player provides ENGLISH, FRENCH, SPANISH etc. as the built-in subtitle language. When a DVD is played, the user may hide the subtitle or choose any of them as the preset subtitle language.

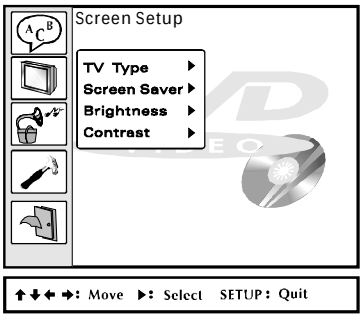
figure



SCREEN SETUP

This option is used to setup the DVD video output function.

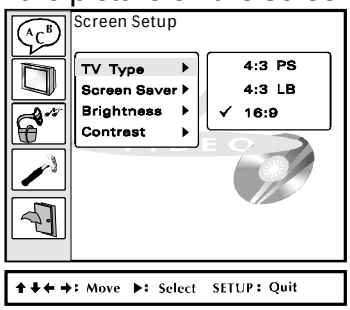
figure



1 TV TYPE

TV TYPE controls the presentation of the picture on the screen.

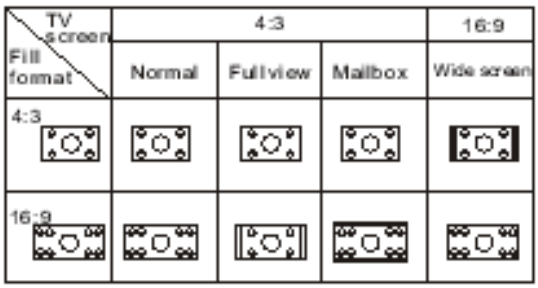
figure



4:3 PS: Display 16:9 source on normal 4:3 aspect ratio TV display as pan and scan (PS). The edges are cut off in this mode.

4:3 LB: Display 16:9 source on normal 4:3 TV display as letter box (LB). When a DVD providing multiple angles is used, the user may select a particular angle.

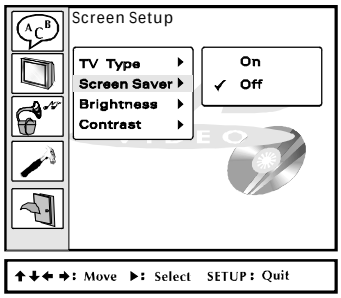
WIDE: Display 16:9 source on special 16:9 wide screen TV.



2 SCREEN SAVER

The screen saver is a graphic that randomly moves around the screen so that when the DVD is turned on and the display information is not changing, the monitor does not degrade.

figure



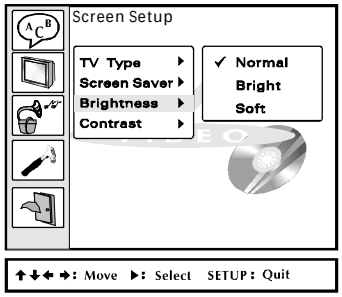
ON:sceen saver is on.

OFF:screen saver is off.

3 BRIGHTNESS

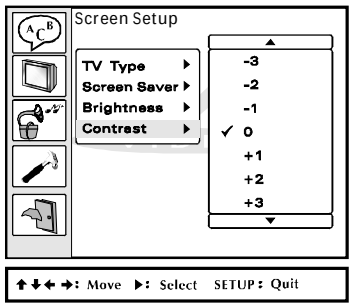
Brightness setting controls the DVD video output brightness.

figure



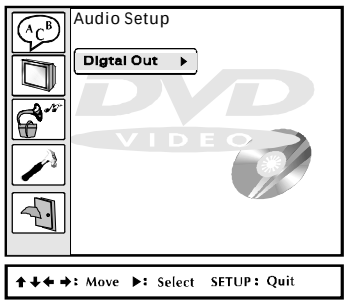
4 CONTRAST

Contrast setting controls the DVD video output contrast.
figure



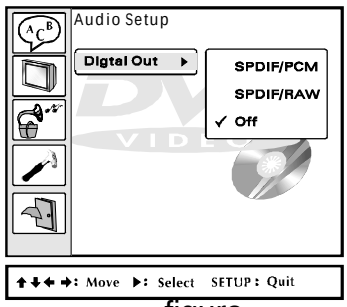
AUDIO SETUP

Audio setting controls the DVD digital audio output.
figure



1 DIGITAL OUT

This DVD provides two kinds of audio output.

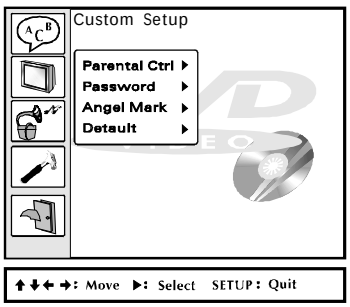


figure

SPDIF/RAW: Not available for this model.
SPDIF/PCM: Not available for this model.
OFF: No digital audio output.

CUSTOM SETUP

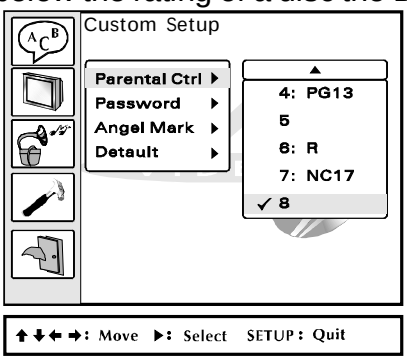
Custom setup include parental control, password, angle mark and default. Preset values are essential to a DVD player. The user may change these items as desired.
figure



1 PARENTAL CONTROL

In the United States, categories go from 1G (very restrictive content) to adult categories. However, different geographic locations abide by different categories of program material. Accordingly, Parental control and Locale go together. Consult your local television and DVD authorities for what the ratings mean in your area. If the level set here is below the rating of a disc the DVD will request a password.

figure

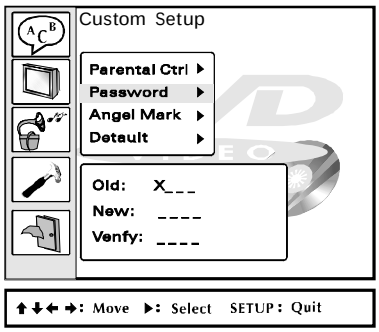


2 PASSWORD

The default super password is 8888 The user may change it using this option.

You must enter a valid password here to gain access to Parental controls. Do not forget the password you enter here, otherwise, you have to set the DVD back to the factory settings (default menu) and reset all your setup options.

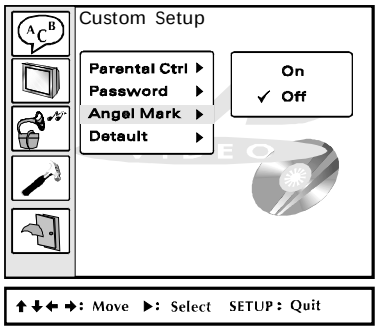
figure



3 ANGLE MARK

This option setups the angle mark function.

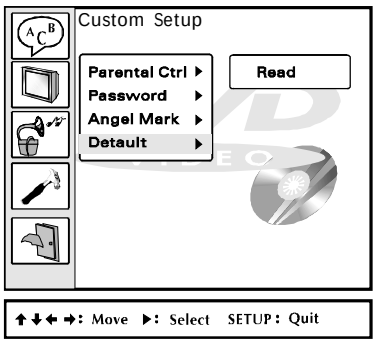
figure



ON: angle mark is displayed on the screen.
OFF:angle mark isn't displayed.

4 DEFAULTS

Defaults set all the selectable options in all the menus to factory settings and should only be used as a last resort.



figure

CAUTION: If you choose Defaults option, Parental controls must be reset along with all the other selections you have made in the Setup menus. Before you use this option, ensure this is the only way you can get the DVD to operate again. You may wish to review and record your present settings before choosing to reset all your options back to factory settings.

EXIT

Press to exit the setup menu. You can press the guide button to exit the setup menu directly.

Playing Discs
Note: Before attempting to play a DVD make sure that the remote control is in the DVD mode.

Playing DVDs
For basic information about loading and playing discs, go to page 10. This chapter gives you the details about the DVD disc menu.

Using a Disc Menu
Some discs have an on-screen menu that is separate from the DVD player's menus. The disc menu might only contain a list of the titles and chapters or it may allow you to change features such as language and playback settings. Although the content and operation of disc menus vary from disc-to-disc.

1. While the disc is playing, press MENU button on the remote control. The disc menu appears.
2. Use the △/▽ and ◁/▷ button to highlight the section (or item) of the disc menu you want to choose, and use OK button on the remote control to confirm your selection..

Tip and Note: Many discs skip the disc menu and start playing automatically. To access the disc the disc menu when you're playing a disc, press MENU button on the remote. Any settings you change on the disc menu only override the settings in the DVD player's menu temporarily. Default settings are set up in the DVD player's menu system. To change the default settings, go to DVD MENU System.

Playing Audio CDs
Your DVD player has many of the same features as an audio CD player. This section explains how to play audio CDs in your DVD player and how to use the player's features.

Scan Disc
To scan through the disc when you're playing it, use the scan feature.

1. Press the REVERSE or FORWARD button on the remote when you're playing a disc.
2. Press the button again to scan at a faster speed.
3. Press the PLAY button at any time to resume normal playback.

Track Advance or Reverse

1. Press the **>>I (**or **I<<)** button on the remote when you're playing a disc.
2. Each time you press the button, the CD advances (or reverses) one track.

Play/pause

1. Press the PLAY / PAUSE button when a disc is playing to pause the disc.
2. Press the button again to resume normal play.

Playing MP3 Discs
MP3 is an audio compression mode Using Level 3 of the international standard MPEG, whereby the sound signal is compressed at a rate of 12:1. These files have an .mp3 extension. Your DVD player can playback MP3 audio recorded on some, but not all CD-R or CD-RW discs. Experimentation with different brands of CD-R/RW discs may be necessary.

To Play a MP3 Disc

1. Insert the MP3 disc. The folder selection screen appears.
2. Use the arrow buttons to select the folder you want to play and press the OK button.
3. Use the arrow buttons to select the files (or tracks) you want to play and press the OK button. Then selected files (or tracks) play.
4. Press the STOP button to stop playback.

Tip: When you play a CD or MP3 disc, you can also use number buttons to select tracks, files, and folders.

The most common types of television interference are as follows:

SNOWY PICTURE

Snowy picture is usually due to weak signal or damaged lead-in wire. Adjust antenna, install an antenna amplifier, or replace the lead-in wire.

DOUBLE IMAGE OR GHOSTS

Double images are usually caused by reflections from tall buildings. Adjust the direction of the antenna or raise it.

RADIO WAVE INTERFERENCE

Wavy patterns are moving on the screen, which are usually caused by nearby radio transmitters or short-wave receiving equipment.

HIGH TEMPERATURE ELECTROTHERMAL INTERFERENCE

Diagonal or herringbone patterns appear on the screen or part of picture is missing. This is probably caused by high temperature electrothermal equipment in a nearby hospital.

NOTE: If any of these symptoms appears on your screen but your set is connected to a CATV (cable) feed, then the fault may lie with your cable company.

Troubleshooting

Most problems you encounter with your TV you can correct by consulting the Troubleshooting list that follows. If the trouble still persists, contact the service center.

For TV
Problems Check

No picture or sound: Confirm that the line cord is plugged in to a live outlet.
Check if the power switch is in "on'" position.

Picture is OK, no sound: Check if the volume control is set to the minimum or mute position.

Remote control doesn't work: Check if the power switch is in "on" position.
Check to see if the batteries are good and properly inserted.
Make sure that there is no strong light striking the sensor window on the set.
Check there are no obstacles between the sensor window and the remote control.

No TV signal: Check if the TV/AV button is set to AV. Set to TV.
Check if the antenna is connected.

No external video signal: Check if the TV/AV button is set to AV position.

Picture lacks color or picture is too dark: Check color, bright and contrast control settings. Adjust as needed.

All channels lose color intermittently: Check if the antenna is broken.
Check if the antenna is disconnected.
Check if the antenna is damaged.

Poor reception, loss of color with certain channels: Check if channels are correctly tuned (see "Fine tuning").

Diagonal stripes appear on picture: The receiver may be affected by interference (e.g. from nearby radio broadcasting transmitter or from another TV receiver).

Picture has "snow": Check if the antenna is broken.
Check if the antenna is disconnected.
Check if the antenna is damaged.

Ghost images appear: Check if the antenna direction has been changed by storm or strong wind, etc. Ghost images are caused by the simultaneous arrival of two signals at the same time (to the antenna). One which has traveled directly from the transmitter and the other a reflection of the original which has "bounced" off some other object. Attempt to find the best placement of the antenna to minimize this effect.

For DVD Player

Disc does not play

Check to make sure the disc is loaded correctly (label side is face up on the disc tray).
Check that disc is free of dirt, dust, finger prints, smudges.
Check to ensure disc is within the guides on the tray.
Turn off the parental lock.
Make sure disc is for use in region 1.

Picture dividing

Make sure the disc is clean and free of scratches.
This player is controlled by a microcomputer. If problems are encountered, try switching off the power, wait a few seconds, and switch it back on.

MP3 discs don't play

Try a different software program to record the disc. The MP3 compression used may not be compatible with the player. The latest versions of Audio Station 4, Easy CD Creator, and Toast Titanium provide good compatibility. Try a different brand of blank media. Try burning the disc at a slower rate.
Make sure MP3 file is not encoded with a variable bit rate, such as provided by Real Networks.

DISC PROTECTION

Protection

When loading or removing the discs, always hold them by the center and edge.
Do not stick or write anything on the surface. Protect discs against fingerprints.

Cleaning

Wipe the discs from time to time using a soft cloth. Always wipe from the center toward the edge.

Storage

Never warp the discs. During non- use periods, store discs their cases, which should be kept vertically. Do not expose discs to high temperature, dampness or extremely low temperatures which can damage to the discs.
Do not expose discs to direct sunlight.

Specification

Model	KDT133UY
Color System	NTSC
Power Supply	~120V 60Hz / DC12V
Power Consumption	85W
Chassis Construction	IC Solid State
Picture Tube	13"
Audio Output	2 ×1W
Loudspeaker	16Ω/3W
Tuner Type	181 Channels, Quarts PLL Frequency synthesized
Remote Control	Infrared, Direct Access 39Keys, 2 size AAA Batteries
Channel Coverage	VHF 2-13 UHF14-69 CATV 1-125
Antenna Input Impedance	75Ω(VHF/UHF/CATV)Coaxial Input
Dimensions	15.2″×17.51″×14.8″
Weight	28.6lbs

Accessories

1. User's Manual
2. Remote control
3. Warranty Card
4. Safety Card
5. 2 size AAA Batteries

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